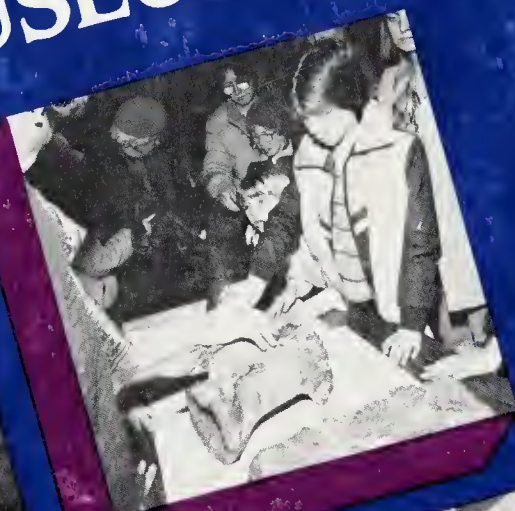
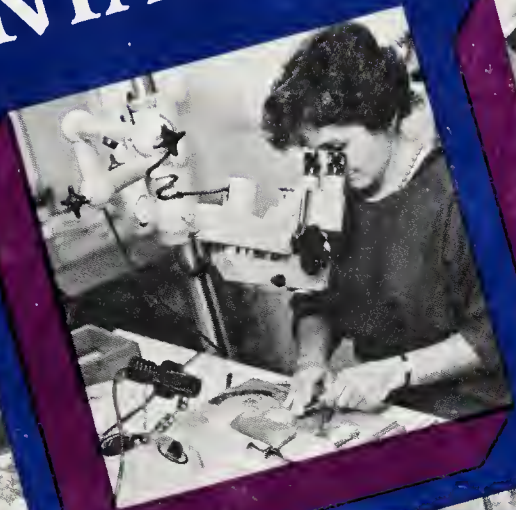
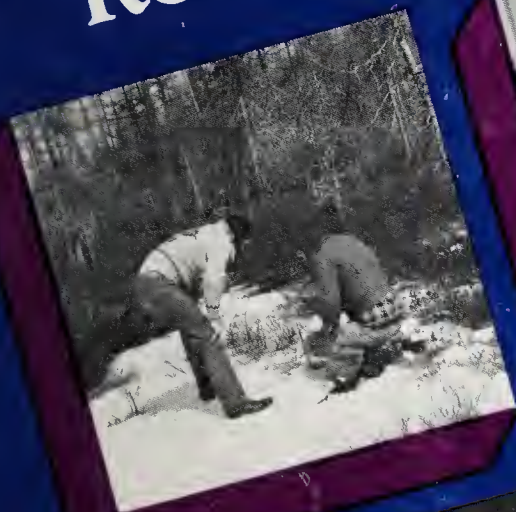


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ROYAL ONTARIO MUSEUM



THIRTY-FOURTH ANNUAL REPORT JULY 1983-JUNE 1984



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Royal Ontario Museum

Thirty-Fourth Annual Report

July 1983–June 1984

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Report of the Chairman of the Board of Trustees of the Royal Ontario Museum

To His Honour
The Lieutenant Governor-in-Council:

This is the first report on my stewardship as chairman of the Board of Trustees of the Royal Ontario Museum that I am privileged to make to Your Honour and by subsequent publication to the members of the ROM, to the people of Ontario, who supply so much of the funding for the operation of the Museum, and to the Government of Ontario, which is the trustee of those monies. It is my hope that this report will assist all parties to understand and to assess what the staff, the management, and the Board have accomplished during the past year. This result can only be attained, however, if the reports of the director and of the various department heads are read in conjunction with this report.

I wish at the outset to express to all of the staff of the Museum, to its management, and to the Board of Trustees, and especially the Board committee chairmen, as well as to the Government of Ontario, in particular, the Honourable Susan Fish, Minister of Citizenship and Culture, the Honourable William Davis, Premier of Ontario, and Dr Edward E. Stewart, Secretary of the Cabinet, my very sincere appreciation for the guidance and support they have given me and the courtesy they have shown me (unfortunately, not always reciprocated) in my first year of office. I would also like to acknowledge the real contribution to the Museum made by Mrs Barbara Stephen, the former associate director, curatorial, during her eight years in that appointment. Mrs Stephen is now on sabbatical leave.

It is difficult to comprehend the wide and varied scope of the activities of the Royal Ontario Museum in the fields of science, education, and culture. I have always been keenly interested in the ROM and I have been chairman for over a year, and yet I continue to feel amazement, touched with awe, at what is contained within this building, the second-largest and most modern museum building in North America, and what is done within and without. An understanding of these activities can only be gleaned by becoming a member of the ROM.

It is the task of others to report on what has been done this past year. My task is to tell you of the organizational and other changes that have taken place. The structure of senior management has been reorganized and the Museum now operates with a director (Dr James Cruise) and two associate directors—one curatorial (Dr David Barr) and one operations (Mr Henry Graupner). In addition, there is an assistant director, public programs (Mr Ken MacKeracher) working with the associate director, operations, and the director. Except for Dr Cruise, all of these gentlemen have assumed their present positions this year.

The operation of the Board of Trustees has also been greatly changed. The number of Board committees has been increased and the scope of each committee has been narrowed in order to provide more direct support for specific aspects of management. All trustees are serving on two or three committees and it is not unusual for a trustee to attend five or six meetings a month and for the committee chairmen to spend a great deal more time than that on Museum affairs. You can see, therefore, why I am so indebted to them.

There has been a substantial change of senior staff in Programs and Public Relations, which is resulting in a great deal of activity at the Museum and a considerable amount of public exposure for the ROM. Complementary and supplementary to this new vigour in the programs and public relations area has been a highly successful membership drive, which has increased memberships during the



year from 8576 to 9578. I hasten to point out that many of these are family memberships, and at the present time the total number of members of the ROM is 13 482. It is our belief that this drive must be continued so that by the end of the coming year we will have increased our membership by fifty per cent.

This year the main priority of the Board of Trustees and the management was to establish the ROM on a firm financial basis. There are four areas to be considered in establishing a sound financial position. The first is obviously to make certain that there is no waste in expenditures. As chairman, I am satisfied that we are well on the way to achieving this objective. Indeed, it is my belief that certain allotments have been cut to such an extent that some of the ROM's scientific and educational obligations are difficult to fulfil and that we must immediately find the funds to allow more expenditures in these fields.

We then turn to the revenue side of the ledger. I have already referred to the manner in which the public programs and marketing branch has been endeavouring to attract visitors to the Museum and I am confident that to the extent that it is possible we will increase the revenues from public attendance and shop sales. In addition, the marketing staff is seeking out other sources of revenue through sponsorship and rentals that will assist in providing more funds for extra marketing.

As the greatest amount of our funding comes from the Government of Ontario, I have viewed it as my obligation to convince the provincial government that—notwithstanding its very real obligations in other aspects of education, science, and culture, as well in the fields of health and environment, and in the infrastructure of the province—the ROM was entitled to be a

government priority for this year and for the next two years as well.

The basis of our entitlement was that in 1977/78, when the planning for the new ROM took place and it was agreed to almost double the physical structure of the Museum, it was recognized that the new Museum, which was to be opened in 1982, would require a much larger staff, both operational and curatorial. In the planning, specific grant estimates were outlined by the ROM and approved in principle by the government. In the course of building, however, government spending restraint became a matter of necessity, so that our operating grants were not close to those envisaged when the building was started, or indeed close to the essential minimum if the Museum was to be operated properly. After a series of discussions, the government recognized the legitimacy of our claim and agreed to a sizeable increase in our grant during the next two years. The increase that has been announced for the coming year is slightly over sixteen per cent. While this increase will not bring us close to the totals that were envisaged in 1977/78, nevertheless, in view of all the other public priorities and of the government's commitment to us that this increase will be repeated next year, the Museum has been treated fairly.

The most pressing financial need, however, is for money to complete the permanent exhibitions and galleries of the ROM. At the beginning of this year, only slightly more than twenty per cent of the total permanent gallery space had been completed. It became the major priority of the Board of Trustees to work with management to expedite the installation of the remaining galleries. The target date had previously been the year 2001, which clearly encompassed an unacceptable period of time. The date has now been brought forward to 1991. This target could only be achieved by ensuring that the millions of dollars needed to complete the galleries would be available so that planning could begin for all galleries.

Discussions were held with the Government of Ontario, during which the government agreed to grant to the Museum \$10 000 000 over a period of five years, provided that the Board raised a similar amount of money during the same period of time. The Board then decided that the total requirement for gallery completion was \$22 000 000 and we have embarked on a campaign to raise \$12 000 000. The successful conclusion of this campaign will not be an easy task. I am confident, however, that under the chairmanship of Wilfred Posluns and the guidance of Robert

Howard, the director of the reorganized Development Office, this will be achieved. The early indications are that many corporations, foundations, and individuals who cherish the ROM and its goals will respond generously.

One final area in the financial field is the importance of recognizing the need for funds and gifts-in-kind to enhance the collections, the scientific research, and the education program. While the Galleries Campaign requires priority, the Board and management continue to work on these other matters. All avenues of science grants, including the provincial Ministry of Natural Resources, are being explored. Plans are being made for at least one important new field project, and discussions are being held with important collectors. In addition, the opening of new permanent galleries, such as the Mankind Discovering gallery and the Bishop White gallery, both of which were opened this year, will encourage these types of gifts.

In order that more of the many treasures of the Royal Ontario Museum should be available to the public, we have also opened a semi-permanent gallery, *From the Collections*, for the display of some of our most interesting artifacts. We have also placed sculptures, ceramic horses, and other important objects in various parts of the Museum.

In closing this report, I would also point out that we have been endeavouring through our travelling exhibitions and our many programs and promotions to broaden the support for the Royal Ontario Museum. It is my hope that the people who work for and support the Museum in all of its programs will be representative of the citizens of Ontario as a whole and that the Museum will reflect the many cultures in our great cosmopolitan population.

All of which is respectfully submitted,

Edwin A. Goodman

Edwin A. Goodman
Chairman
Board of Trustees
Royal Ontario Museum
September 1984

Report of the Director to the Board of Trustees

The year 1983/84 began with the exciting news that Mr Edwin A. Goodman had agreed to assume the chairmanship of the ROM Board of Trustees. Mr Goodman is well known throughout Canada for his public-spirited and effective leadership in political and corporate arenas, and the Museum welcomed his appointment at a time when the ongoing gallery development program is of paramount importance. During the year the new chairman demonstrated his interest not only in the continued financial support of the Museum by the Province of Ontario and the private sector, but also in the Museum's public programs, the enrichment of the collections, and the enhancement of external support for research related to the collections. The first year of Mr Goodman's chairmanship was an eventful and a successful one.

At the same time as we welcomed the new chairman, we were expressing deep appreciation to Mr Sydney M. Hermant for five and one-half years of dedicated service as chairman of the ROM Board of Trustees. I feel confident in saying that never during the seventy-one-year history of the Museum has there been a more challenging period for the board and its chairman than the one through which Mr Hermant successfully guided us. The main building complex, which consists of the two new buildings and the thoroughly renovated old building between them and provides some sixty-five thousand square metres of floor space, is tangible evidence of a major accomplishment during Mr Hermant's chairmanship. It remains for us now to finish the challenging job of filling the public gallery space with effective new permanent exhibits.

Several galleries were completed during the year. On 1 November the Bishop White gallery opened with a gala party organized by the Bishop White Committee. The other permanent gallery to be completed was the Museum's theme gallery, Mankind Discovering, located in the Currelly gallery on the main floor and officially opened on 30 April. Mankind Discovering is unique, representing as it does the first theme gallery put in place by any complex, multi-disciplinary museum. As many as one hundred ROM staff members had a significant role to play in the development of this strategic gallery, which is proving to be intriguing to ROM visitors.

The Museum played host during the year to a number of temporary exhibitions, both large and small. *Silk Roads • China Ships* opened in Exhibition Hall on 10 September; the occasion was marked by a gala dinner in the southwest atrium, provided by the exhibition's corporate sponsor, the American Express Foundation. *Silk Roads • China Ships* earns a special place in the Museum's history as the first major exhibition organized by the ROM, largely from our own collections, with the objective of an international tour after its showing in Toronto. The exhibition and the accompanying catalogue owe their excellence to the curatorial input of Mr J. E. Vollmer, Dr E. J. Keall, and Dr E. Nagai-Berthrong, and the catalogue to the outstanding editorial work of Miss Mary Terziano as well.

The second major temporary exhibition of the year was *Georgian Canada: Conflict and Culture*, the Museum's most significant contribution to the celebration of Ontario's bicentennial. This exhibition, conceived and organized by Mr D. B. Webster, was opened by the Honourable William G. Davis in the midst of a Georgian strawberry social on 7 June. It, too, is accompanied by a handsome catalogue. The Museum expresses appreciation to the Province of Ontario for generous financial underwriting of this exhibition and to the fifty-four institutions and individuals, including Her Majesty The Queen, who lent artifacts for it.

The Museum was honoured on 12 April by a visit from Her Excellency Mrs Lily Schreyer for the opening of *The Perfect*



Setting, a display of winning entries in a competition of contemporary Canadian china and glassware, which Mrs Schreyer had sponsored. In October the Museum played host to the International Chinese Snuff Bottle Society and in April to the American Ceramics Circle.

In the meantime we noted with pride and pleasure the opening on 3 March of our newest neighbour, the George R. Gardiner Museum of Ceramic Art, at 111 Queen's Park.

The arrival at the ROM on 1 June of five pieces of Charles Rennie Mackintosh furniture generated considerable excitement. The purchase of the furniture was made possible by a federal grant recommended by the Cultural Property Review Board.

A number of significant staff changes took place during the year. Mr R. McCartney (Mac) Samples retired in September from his position as assistant director, education and communication. Dr Alan R. Emery tendered his resignation in late September in order to accept the directorship of the National Museum of Natural Sciences in Ottawa. In November Mr John E. Vollmer resigned to become chief curator of fine and decorative arts at the Glenbow Museum in Calgary. In April Mrs Barbara Stephen completed her term appointment as associate director, curatorial. Mrs Stephen occupied this onerous position for more than eight years, and I pay tribute to her dedication and effectiveness. The year-end saw the retirement of a number of popular staff members of long service: Mrs Marion Blake (European), Mr Victor Murphy (Physical Plant), Miss Helen Driver (Mineralogy and Geology), Mr Alan Lawrence (Physical Plant), Miss Lil Roe (Personnel), Miss Dorothea Hecken (Researcher, Special Projects), and Mrs Elizabeth Phillimore (Conservation). Mr Ken MacKeracher joined the staff in January as assistant director, public programs. In April Dr David W. Barr became acting associate director, curatorial, and a search committee began the task of choosing a successor to Mrs Stephen.

The year has been an extremely busy one, and I wish to pay tribute to all members of staff for their cheerful and unflagging devotion. To the members of the ROM Board of Trustees, campaign workers, and all other Museum volunteers I express sincere appreciation.

Toronto, Ontario
7 September 1984

James E. Cruise
Director

The ROM Galleries Campaign Report

Robert Howard, Head, Development Office

A new chapter in the ongoing story of development at the ROM was inaugurated on 22 February 1984 at the Royal York Hotel.

Premier William G. Davis announced that the Province of Ontario would continue its history of generous support for the Museum, with a matching grant of \$10 000 000 for gallery development. This grant requires that the ROM raise \$12 000 000 so that the total cost of \$22 000 000 for gallery completion can be met.

It was very heartening to find that many of the ROM's long-time friends and benefactors, as well as an extensive group of senior leaders in business and industry, attended this announcement and accepted a role in the achievement of the priority objective of completing the gallery development. Within 120 days of the start of campaign business, in excess of \$3 000 000 had been raised in cash or pledges. This early result was extremely encouraging.

The campaign represents a challenge, but what is more important it presents an opportunity to expand the community of Museum supporters. The intention is to run a multi-faceted campaign that will approach companies, foundations, and individuals, and at the same time permit the ROM to broaden its base of support by seeking contributions from many smaller and medium-sized companies and from individuals that may not appear on existing special names' lists. To this end, a sub-section of the individuals and companies campaign was established and is achieving success in forging new links with various ethnic and business groups—links that will greatly enhance long-term support for the ROM.

As the campaign progresses, revenue for gallery development will increasingly be sought through a more aggressive stance in the area of events, promotions, and sponsorships. The opportunity to carry the message of the true value of the ROM to as broad a group as possible is an important part of the campaign.

A recent major undertaking was the introduction of two new donor recognition clubs at the ROM: the Royal Terrace Club for individuals and the Royal Corporate Circle for companies. The clubs will serve to recognize major contributors in a special and ongoing way. They will also facilitate grateful acknowledgement of individuals and corporations that have a special feeling for the ROM and a special place for it in their financial contributions.

One very gratifying aspect of the new era of development at the Museum has been the notable response of many individuals who have given their time and expertise, as well as financial support, on behalf of the broad educational, scientific, and cultural mission of the ROM and of its immediate challenge to "unlock the treasures".

Mr Edwin A. Goodman has exercised the vital role of leadership in fund raising, which is essential from the chairman of an institution such as the ROM in these times. The number of prominent individuals attracted to the development task at the ROM is a tribute to the leadership of and regard for Mr Goodman, and to the efforts of the dedicated campaign chairman, Mr Wilfred Posluns.

It is always dangerous to name a few campaign workers in a report, since inevitably someone is overlooked, or begins to work after the piece is written, but the risk must be taken to ensure that the substantial contributions of certain individuals are acknowledged, particularly in two areas vital to the success of the campaign. The efforts and the time committed on behalf of the ROM by Mr Robert W. Stevens, chairman of the special names'



The Honourable Roland Michener lights the fuse of the King's Royal Yorkers' cannon to start the third annual "Run for the ROM", 15 June 1984.

sector, and Mr Philip N. Holtby, chairman of the general corporations' sector, are greatly appreciated.

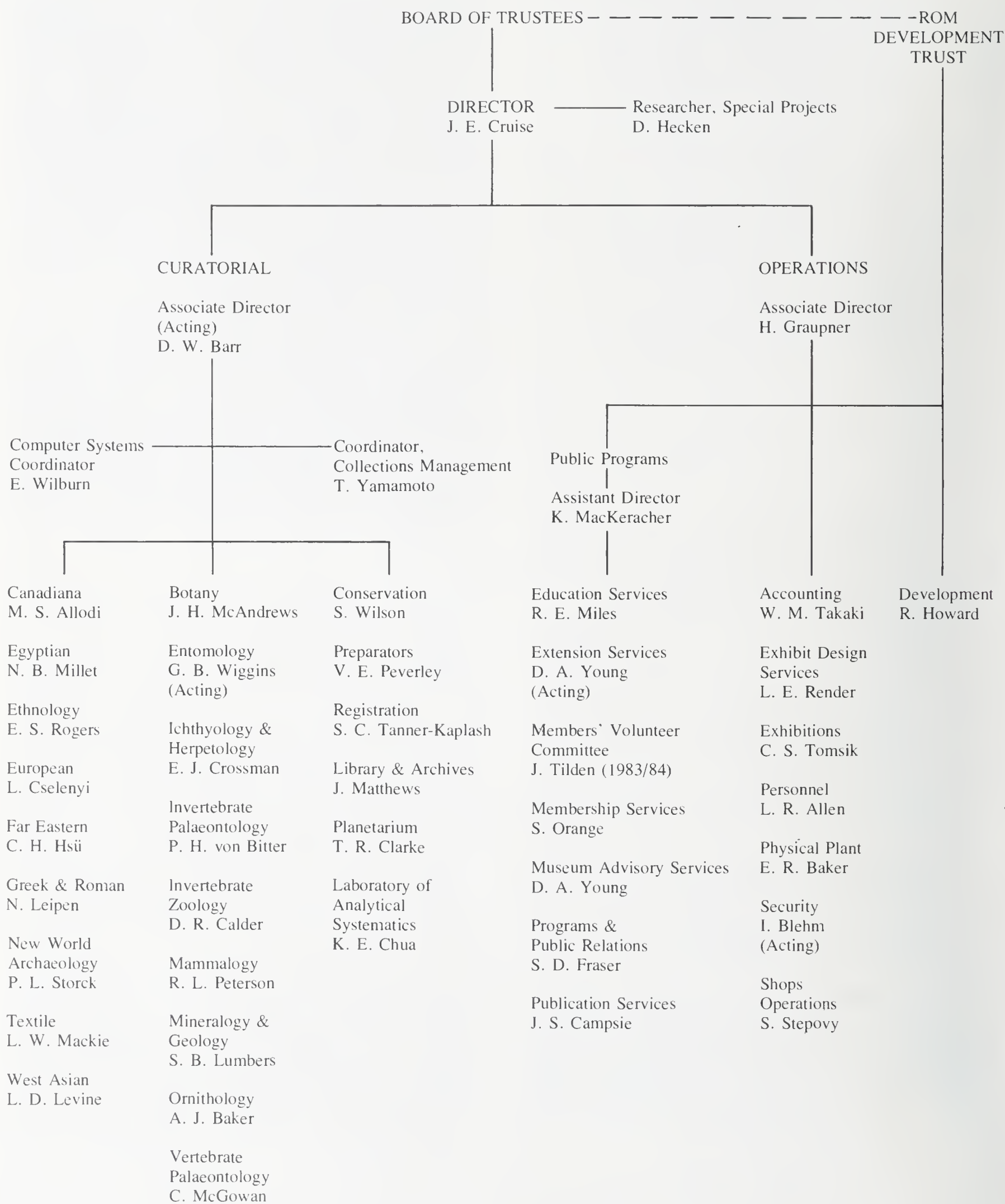
In the area of major corporations, under the direction of Mr Goodman, the ROM has been very fortunate in having the leadership and efforts of Mr Richard Thomson, Mr Jack Rhind, and Mr Arden Haynes, each of whom has done a remarkable job in his sector and deserves the thanks of all who will benefit from the completion of the ROM galleries. In addition, Mr Richard M. Ivey has once again demonstrated his strong commitment to the ROM through his support and his continuing work on its behalf. A special vote of thanks must go to Mrs Mona Campbell and Mr John Devlin, who have not only been a very valuable source of information but have also been active and productive canvassers. Their continued efforts and commitment have been outstanding.

Mr Ron Miles and his tireless group should be commended for another fine "Run for the ROM", which serves to raise both money and the profile of the Museum. Sixty-eight teams, each composed of twenty members, amassed pledges of \$169 671 towards the Galleries Campaign.

A report on development and the campaign would not be complete without mention of three individuals who are deeply involved almost daily. Their ideas, efforts, and time will contribute greatly to the success of the campaign, and their presence is a constant source of enjoyment. Mrs Joan Thompson, Mrs Dibs Rhind, and Mrs Susie Loewen have the sincere thanks of the Development Office and of the ROM.

Museum Organizational Chart

as of 30 June 1984



Curatorial, Collections Support, and Planetarium Departments

David Barr, Acting Associate Director

Departments in the curatorial stream are the custodians of the Museum's collections and the source of specialist information for galleries, exhibitions, and other public programs. Activities of our staff include field expeditions; buying trips; the care, documentation, and preservation of collections; gallery planning; research and scholarly study; and the operation of the Museum library and the McLaughlin Planetarium.

Many of these activities are discussed briefly in the individual departmental reports that describe contributions to the Museum program by specialists in twenty-three areas. In evidence here is the degree to which the work of the departments of this stream is integrated with programs across the institution. Curatorial lecture series are presented by Education Services, and staff media interviews are arranged by Programs and Public Relations. Information and artifacts are provided for exhibits organized by Exhibit Design Services, the Exhibitions Department, and Extension Services.

Direct public service, through provision of identifications, illustrations, and specialist information, is another continuously active but often overlooked area of contributions from this stream.

Staff responded to thousands of queries from the general public, other government agencies, health care organizations, and private business.

Mr Toshio Yamamoto, coordinator of collections management, provided collections support services to curatorial departments, including the planning of safety improvements in collection storage areas and the development of new Museum policies for the care of artifacts and specimens. Computerization of collection records through the Canadian Heritage Information Network has increased enormously during the past year, facilitated by the appointment of Mr Gary Friedman as supervising recorder.

Mr Gene Wilburn was appointed during the year as the first computer systems coordinator and has played an active role as our resident expert and adviser, assisting Museum departments from all streams in the selection and installation of microcomputer hardware and software. He has written programs or applications to assist departments in computerizing functions as disparate as mailing lists, a telephone directory, and analysis of staff time devoted to work on the all-important gallery program.

CANADIANA DEPARTMENT

Mary Allodi, Associate Curator in Charge

The year's activities in the Canadiana Department were focused on special exhibitions and new gallery development.

EXHIBITIONS *L'art de l'architecte: Three Centuries of Architectural Drawing in Quebec City* (October–November 1983) was organized by the Université Laval and the Musée du Québec. It honoured the 375th anniversary of the founding of Quebec City. Its Toronto showing was coordinated by Mrs Mary Allodi, associate curator in charge, and Mrs Honor de Pencier, curatorial assistant.

Toronto's sesquicentennial was marked by the exhibition *Mapping Toronto's First Century, 1787–1884* (December 1983–April 1984). It was organized by guest curators Miss Isobel Ganton and Miss Joan Winearls, coordinated by Miss Janet Holmes, curatorial assistant, and jointly sponsored by the Toronto Historical Board, The McLean Foundation, and the ROM. *Ontario Remembered: Nineteenth-Century Prints and Watercolours* (April–September 1984) celebrated Ontario's bicentennial with historic views of the province's towns and cities and was organized by Mrs Allodi. These exhibitions were held in the Sigmund Samuel Canadiana Building.

The ROM's exhibition celebrating Ontario's bicentennial was *Georgian Canada: Conflict and Culture* (June–October 1984), an examination of Georgian cultural influences on Canada and of the effect of early conflicts on the formation of Canada's governing structures. It was organized and coordinated by Mr Donald B. Webster Jr, curator, and held in Exhibition Hall.

GALLERY DEVELOPMENT During the second half of the year all staff members have been working on exhibit development for the ROM's Canadiana terrace gallery. The gallery, comprising 315 m² on level 1B, will be opened early in 1985.

ACQUISITIONS The collections were enriched by 235 gifts from 26 donors, including a group of 106 political cartoons by Samuel O. Hunter from the estate of Mrs George Boothe Ferguson; a silver presentation ewer and tray acquired with the help of Mrs George R. Harris in recognition of the work of Mrs Helena R. M. Ignatieff in Canadian decorative arts; an 1858 watercolour sketchbook given by Mary Anne Miller in memory of Louisa Hope Napier Currie; a



Mr Warren Davis, chairman of the Toronto Historical Board; the Honourable Arthur Eggleton, mayor of Toronto; and Miss Joan Winearls, guest curator, at the opening of *Mapping Toronto's First Century* on 12 January 1984.

silver hunting horn from Mr John Laurel Russell; and silver flatware from Mr Richard Flensted-Holder.

During the year, thirty-one artifacts were purchased. Among these were portraits of Taschal and Emelie Persillier-Lachapelle, painted by Jean-Baptiste Roy-Audy, which were acquired with the aid of a grant from the Government of Canada under the terms of the Cultural Property Export and Import Act.

LOANS Exhibition loans went to the Winnipeg Art Gallery; the Montreal Museum of Fine Arts; the Art Gallery of Hamilton; the Norman Mackenzie Art Gallery, Regina; the Art Gallery of Ontario, Toronto; the Musée du Québec; the McCord Museum, Montreal; the Parker Gallery, Lowell, Massachusetts; the Kitchener-Waterloo Art Gallery; and the London Regional Art Gallery; and to exhibitions organized by other ROM departments.

TEACHING AND LECTURING Mr Webster taught a graduate course on North American decorative arts at the University of Toronto, and organized the ROM lecture series on the Georgian period. Mrs Allodi lectured on early Canadian portraits at the Academy of Medicine, Toronto, and Miss Holmes lectured on Canadian glass at Harbourfront, Toronto.

PUBLICATIONS In May 1984 Mr Webster's major exhibition catalogue *Georgian Canada: Conflict and Culture, 1745-1820* was published by the ROM.

PUBLIC SERVICES AND OTHER EVENTS During the year, 1064 telephone inquiries and 389 individual visitors' requests were answered. A total of 665 photographs of artifacts in Canadiana collections were supplied—221 for publication, 220 for research, and 224 for documentary films, lectures, and exhibitions. The Members' Volunteer Committee held fully subscribed monthly luncheon tours and led weekly current exhibition tours. ROM volunteers provided library assistance.

EGYPTIAN DEPARTMENT

N. B. Millet, Curator

The department's activities were severely curtailed this year owing to shortage of staff, and essential tasks absorbed most of our attention. Research and planning for the new galleries occupied most of the department's time, and involved the staff in work on the main Egyptian galleries representing Middle Kingdom and New Kingdom Egypt, Late Egypt, Egyptian religion, and Nubia.

ACQUISITIONS AND GIFTS Several items were contributed to the library on the department's behalf by Mr G. E. Freeman of Toronto. Objects donated to the departmental collections included a faience *shawabty* of Dynasty XXI, from Mr and Mrs E. V. Thompson Jr, and seven scarabs and a seal from Mr and Mrs D. W. Nicholls of Toronto. Successful bidding at an auction in New York brought us a fine Roman-period painted mummy shroud, which fills a long-existing gap in the collections.

EXHIBITIONS Several of the department's prize pieces, including two of the public's favourite mummies, have now been put on display in the exhibit *From the Collections*. The Egyptian Department also contributed a few pieces to the exhibition *Silk Roads • China Ships*.

LOANS A loan was arranged to the George Walter Vincent Smith Art Gallery of Springfield, Massachusetts, of twenty-four objects of art and daily life towards their exhibition *The Life and Times of Padihersef*. The show will celebrate the life of an



Egyptian workmen remove the house that was built over the tomb of Kitines before the tomb's restoration and conservation.

ancient cemetery workman whose mummy was the first to be subjected to scientific autopsy in North America, in 1824. An exhibition at the St Albert Museum, St Albert, Alberta, in the summer of 1984, made use of departmental material previously on loan to the Ring House Gallery, University of Alberta.

FIELD WORK The Dakhleh Oasis Project, a joint venture of the ROM and the Society for the Study of Egyptian Antiquities, went on with its work of survey and excavation for a sixth season this year, headed as before by Mr A. J. Mills, now a research associate, with Mr Alan Hollett, technician, taking part as photographer. The season's work involved study and consolidation of the tomb of Kitines and further examination of the dune-buried but apparently entire temple at Ain Birbiya. Dr Krzysztof Grzymiski, research associate, carried out a brief season for the Dongola Reach Survey Project, of which he is now the chief, having replaced Dr N. B. Millet, curator.

TEACHING AND LECTURING Dr Millet continued teaching in the much-reduced program in Egyptian archaeology in the University of Toronto and gave several lectures to special groups and a public lecture on the funerary art of ancient Egypt in the *Curators' Choice* series.

APPOINTMENTS Dr Millet served, as before, on the board of governors of the American Research Center in Egypt and on its Committee on Archaeological and Research Expeditions, and he continued as a trustee of the Society for the Study of Egyptian Antiquities and other bodies. At the end of the year Dr Grzymiski was appointed assistant curator in the department to replace Mr Mills, and the Egyptian Department may therefore look forward to a more normally active year to come.

DEPARTMENT OF ETHNOLOGY

Edward S. Rogers, Curator in Charge

APPOINTMENT The search for a new curator for the department was successfully concluded during the year with the appointment of Dr Trudy Nicks.

ACQUISITIONS AND LOANS Artifacts from the Tanana Indians of Alaska and two paintings by Benjamin Chee Chee, deceased, were purchased for the collections. Two important loans were made from the collections to the Art Gallery of Ontario for their exhibitions *Norval Morrisseau and the Emergence of the Image Makers* and *From the Four Quarters: The History of Native and European Art in Ontario, 5000 B.C. to A.D. 1867*.

GALLERY DEVELOPMENT AND EXHIBITIONS The department was involved in the development of the Mankind Discovering gallery and in the special Museum exhibitions *Silk Roads • China Ships*; *From the Collections*; and *Georgian Canada: Conflict and Culture 1745–1820*. It also carried out work on the Subarctic galleries and, under the direction of Mr Kenneth Lister, curatorial assistant, organized the exhibition *Wilderness to Studio: The Work of Paul Kane*.

RESEARCH AND FIELD WORK Projects were begun or continued under the research program. Mr Arni Brownstone, curatorial assistant, spent considerable time correlating a collection of Plains material, for which there is archival documentation here in the department, with other material at Victoria College. Ms Valerie Grant, technician, besides continuing her research into the ethnohistory of the Sucker Indians of Northern Ontario and Manitoba, undertook an investigation of artifacts in the collections produced by Canadian Indians as souvenirs for tourists. Mr Lister conducted research into the yearly fishing cycle and the technology of the Indians of the Hudson Bay Lowlands of Northern Ontario, for which he received grants; he also examined the Hudson's Bay Company archives for data on the use of fish weirs by the Babine Indians of British Columbia. Dr Edward Rogers, curator in charge, and Dr Mary Black Rogers, research associate, with the assistance of Mrs Kay Hipgrave, secretary, continued their investigation into the history of the Crane Indians. Mr Basil Johnston, lecturer, collected data on the legends and botanical knowledge of the Ojibway. Mrs Dorothy Burnham carried on her studies of Naskapi painted coats, and Miss Mary Fitz-Gibbon, researcher, completed her work on the Morris diaries, now with Publication Services for production. Dr Helmuth Fuchs, curator, did some field work on Manitoulin Island and has begun looking at the Richard Codex.

Acquisitions, new and old, were catalogued by Ms Grant, while Mr Brownstone undertook the remounting of the Morris pastels, the installation of a standard denotation system of items for the convenience of staff and other scholars, and the organization of the cold storage room. Mrs Helen Kilgour, department secretary, in addition to her many secretarial duties, administered photographic records and dealt with requests for photographs.

TEACHING, LECTURING, AND PUBLIC SERVICE Dr Rogers taught at McMaster University, and Mr Johnston served as outside examiner on an M.A. thesis committee for York University. Among many notable talks, lectures, and papers delivered by department staff were Ms Grant's and Mr Lister's contributions to Education Services' lecture series, Mr Lister's paper on ceremonial wigs to the Museum's Colloquium, and Mr Johnston's address to the Ethnoastronomy Conference hosted by the Smithsonian Institution.

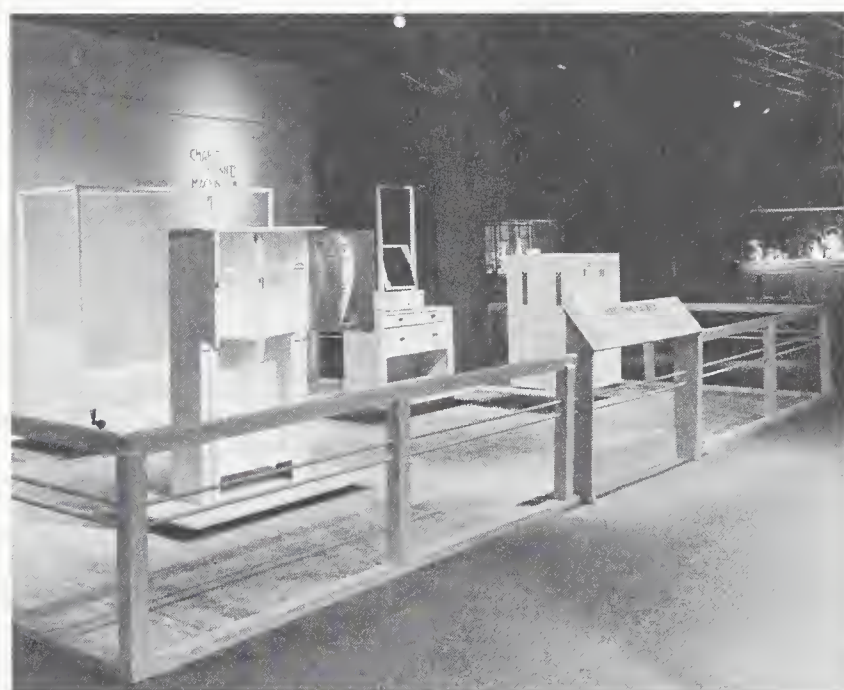
In the field of public service, Dr Rogers served as an adviser to the Ontario Ministry of Natural Resources, Mr Johnston continued as a member of Ontario's Geographic Names Board, and Mr Lister was an examiner for ethnographic materials considered for export under the Cultural Property Export and Import Act.

EUROPEAN DEPARTMENT

Ladislav Cselenyi, Associate Curator in Charge

The past fiscal year was one of heightened activity for the European Department, notably in the fields of gallery planning and exhibitions. A temporary gallery of medieval and Renaissance art was installed in the third-floor rotunda, and the new musical instruments gallery was completed on level 1B of the new terrace galleries. Planning continued for the department's permanent galleries on the third floor.

EXHIBITIONS AND LOANS The department contributed considerable staff time and many artifacts to a series of ROM exhibitions: *From the Collections*, *Silk Roads • China Ships*, *Georgian Canada: Conflict and Culture*, and *Heirlooms: Echoes of Ontario's Past*. It also made major contributions to exhibitions outside the ROM, notably to an exhibition ancillary to the AGO's *Dutch Painting of the Golden Age*, and to exhibitions at Scarborough College, the Robarts Library of the University of Toronto, the Sir William Campbell Foundation, and, outside Ontario, to the Edmonton Art Gallery and the Ringling Museum in Sarasota, Florida.



Furniture designed by Charles Rennie Mackintosh, consisting of a cabinet (1902), washstand, bed, chest of drawers, and mirror (all 1904), that was acquired by the ROM.

ACQUISITIONS The outstanding purchase of 1984 was five pieces of Charles Rennie Mackintosh furniture dating from 1902 and 1904, perhaps the most important single Mackintosh acquisition yet made by a North American museum. The furniture was purchased with the aid of a federal grant from the Department of Communications under the Cultural Property Export and Import Act, and through the generosity of the vendor, Mrs Audrey Bain of Vancouver, and Sotheby Parke Bernet Inc. of Canada. Prof. Thomas Howarth, one of the world's foremost Mackintosh authorities, served as a special adviser.

The department also purchased an important 17th-century Eger cabinet with relief intarsia decoration and received a number of outstanding gifts. Notable among these were a diamond brooch acquired with the generous help of Mrs Donald C. Early and the McColl Foundation; 23 items of silver from Henry Birks & Sons Ltd; 150 examples of 18th-century English ceramics from Mr and Mrs G. Egerton Brown; an 18th-century French cornemuse from Mr Peter Wiest; an 1849 Clinton palisander flute from Mr Anson Green; and an early 20th-century Steuben glass vase and a rare 18th-century Meissen covered cup and stand from Mr and Mrs George Lucas.

RESEARCH, TEACHING, AND LECTURING All members of the department were engaged in research, teaching, and lecturing activities. Mr Ladislav Cselenyi, associate curator in charge, was chiefly engaged in research contributing to the installation of the musical instruments gallery. Mr Heribert Hickl-Szabo, curator, pursued research on the collection of portrait miniatures. Mr K. Corey Keeble, associate curator, continued with gallery work and research on the departmental sculpture collection. Mr C. Peter Kacilgren, curatorial fellow, supplemented his university teaching with ongoing research towards his doctoral degree. Mr Brian Musselwhite, curatorial assistant, continued his research on portrait miniatures and mosaics. Miss Mary Campbell, researcher, worked on the prints and drawings collection. Ms Wendy Kritzer, technician, was active in improving storage facilities and updating photographic and other records.

Mrs Marion Blake, secretary to the department for ten years, retired in May 1984.

FAR EASTERN DEPARTMENT

James Hsü, Associate Curator in Charge

The opening of the Bishop White gallery of Chinese temple art was a major accomplishment for the department this year. It is the second in a series of permanent galleries under development, which will eventually encompass more than 2690 m². Temporary exhibits include a procession of Tang dynasty horses, the Chinese stone sculpture in the northeast atrium, and a selection of objects in the Far Eastern section of *From the Collections*.

ACQUISITIONS The major gift to the department this year was a superb collection of Chinese ceramics and Asian sculptures, totalling 128 works, from Mr Herman Levy of Hamilton. In addition to the Levy gift, 106 objects were given by 16 donors. From the estate of Prof. James Acland came 693 slides. The library received 3 donations towards the purchase of books; they came from the Bishop White Committee, Mrs George G. R. Harris, and the Japan Foundation. The year's purchases include calligraphy, cloisonné, bronze, and ceramics.

RESEARCH Dr James Hsü, associate curator in charge, has finished his book on ancient Chinese society and is expecting to publish it this year. Dr Doris Dohrenwend, associate curator, continued her research on Chinese archaic glass in the ROM collection as well as on jade. Miss Ka Bo Tsang, curatorial assistant, completed her Ph.D. studies in Chinese painting at the University of Hong Kong. Her dissertation is on Hua Yan, an 18th-century Yangzhou painter. Mr Hugh Wylie, research assistant, continued research for his Ph.D. dissertation on the Edo period painting of Japan. Mr Jack Howard, associate librarian, received a grant from the Metropolitan Center for Far Eastern Art Studies to travel to Japan. Ms Jeannie Parker, technician, is working on a brochure to be published on the Ming Tomb gallery.

LOANS The department lent about 150 items internally and approved 12 outgoing loans of 91 objects during the year. Among new loans were 36 objects for testing to the Corning Museum of Glass; 2 Japanese prints to the Art Gallery of Ontario; Japanese objects to the Art Gallery of Greater Victoria; Nō masks to the University of British Columbia Museum of Anthropology; a Chinese ceramic sculpture to the Los Angeles County Museum of Art; and 8 works to the Museum of Jewish Diaspora, Tel Aviv, Israel.

TEACHING AND LECTURING Dr Hsü taught "The Written Word in Ancient China" for the Department of East Asian Studies,



A view of the Bishop White gallery of Buddhist and Daoist temple art from North China, 12th to 16th century A.D.

University of Toronto. Mrs Sara Irwin, technician, Mrs Patty Proctor, curatorial fellow, and Dr Dohrenwend each gave two seminars, on lacquer, ceramics, and jade, respectively, for the International Chinese Snuff Bottle Society. Mr Wylie lectured on Japanese Zen painting and Japanese kitsch.

LIBRARY The library benefited greatly from the help of its many volunteers. Increasing use of the library as a major source of information on oriental art is reflected in the record circulation of books.

OTHER PUBLIC SERVICES In addition to library service, this department has provided facilities, time, and expertise to a great number of interested people from Toronto and abroad. More than two hundred appointments were scheduled for the identification service provided on alternate Wednesday afternoons. There were also over one hundred casual identifications and answers to letters of inquiry. Our famous collections attracted about sixty scholars, dealers, collectors, and groups from China, Japan, the United States, England, Switzerland, Australia, Israel, Taiwan, Singapore, and Hong Kong to view artifacts in storage. Students from various institutions in Canada and the United States also visited the department.

GREEK AND ROMAN DEPARTMENT

Neda Leipen, Curator in Charge

The reinstallation of Greek and Etruscan galleries, with a target opening date of the end of 1984, was the chief departmental activity of the year. With Exhibit Design Services and a design firm, the Greek and Roman curators developed detailed plans for the displays that will illustrate Greek civilization from the Aegean Bronze Age to Hellenistic times. European Bronze Age and Roman Republican galleries are also included in the large project.

GALLERIES AND COLLECTIONS For the Greek and Roman section in the *From the Collections* exhibit, which opened during the year, the curators selected some of the finest pieces of marble sculpture, terracotta figurines, Greek painted pottery, and bronze armour; all of these will eventually be transferred to permanent installations. The department also contributed several components for the Mankind Discovering gallery.

The resources of the department and its collections were used by



One of thirteen mosaic panels from a church complex in the Eastern Mediterranean area, Late Roman to Early Byzantine, about A.D. 500, donated by Dr E. Borowski.

a number of Canadian and international scholars, including those participating in the annual meeting of the College Art Association.

ACQUISITIONS A significant gift of thirteen large Early Byzantine mosaic panels was received from Dr E. Borowski. A donation of funds from Mr Robert E. Hindley made possible the purchase of two objects—a Late Hellenistic cameo and a bronze figurine of a comic actor. We thank both of these generous donors.

FIELD WORK, RESEARCH, STUDY, AND TRAVEL Mrs Neda Leipen, curator in charge, attended the Twelfth International Congress of Classical Archaeology in Athens, and studied at sites and museums at Rhamnous, Kos, and Rhodes. Dr John Hayes, curator, spent a month surveying Etruscan sites in the region of Tarquinia. In Boiotia and Phokis, Greece, and at Kouklia and Paphos, Cyprus, he worked on the pottery finds excavated by Cambridge, Loyola, and Brock universities and Dumbarton Oaks, respectively. He also attended the Third Conference on Italian Archaeology in Cambridge, England. Mrs Alison Easson, assistant curator, compiled a bibliography of Romano-British wall paintings for the Canadian branch of AIEMA (Association Internationale pour l'Étude de la Mosaïque Antique); her manuscript "Central and East Gaulish Mould-Decorated Samian Ware in the Royal Ontario Museum" is in the final stages. Dr Hayes's catalogue of black-gloss wares is to appear shortly. Curatorial assistant Mr Paul Denis's study of a rare marble ring with a female portrait in the collections is soon to appear in *Archäologischer Anzeiger*. Mr Denis also undertook to work on Etruscan bronze mirrors for a planned publication in the international serial *Corpus Speculorum Etruscorum*. All curators supplied texts for the new galleries.

TEACHING, LECTURING, AND MEDIA Mrs Leipen delivered a major invited lecture, "Realism in Greek Art", at McGill University and another, "Greek Sculpture and Pottery: A Glimpse at Excellence" for the ROM series *Curators' Choice*. Popular talks were delivered by curators to North Bay students; to the Saturday Morning Club's thespian group; to the creative arts summer course for seniors, "Caravan to the Orient"; to Museum docents; and to Leaside High School students. Mrs Leipen taught a graduate course on Classical Greek sculpture at the University of Toronto (FAH 2010 S) and acted as examiner at written and oral Ph.D. and Phil.M. comprehensives for two candidates. The department contributed some visual materials for the CBC program *Hand and Eye*.

PUBLIC SERVICE The staff examined and identified about 1650 ancient objects brought in by the public, and answered many requests for information. The slide library also was much in demand. On request, curators visited and examined some private collections.

DEPARTMENT OF NEW WORLD ARCHAEOLOGY

Peter L. Storck, Associate Curator in Charge

Our first complete year in our new offices and labs in the curatorial centre was very active, with a substantial increase in the use of our collections by outside scholars, the beginning of gallery installation (with an anticipated opening date of spring 1985), and a high level of field and laboratory research.

RESEARCH GRANTS AND FIELD WORK Grants in support of field work and collections research were received from the National Geographic Society (Dr Elizabeth Graham, research associate, jointly with Dr G. Jones, Hamilton College), the Nova Scotia Museum (Mr Brian Molyneaux, field associate), Parks Canada (Mr Molyneaux), and the Social Sciences and Humanities Research Council of Canada (Dr Graham and Dr David Pendergast, curator). During the eleventh season of excavation at the Maya site of Lamanai in Belize, Dr Pendergast succeeded in discovering a 16th- to 17th-century community in a previously inaccessible part of the site. This extends the period of recorded occupation at Lamanai to over 3000 years. Also in Belize, Dr Graham (with Dr Pendergast) conducted excavations at Lamanai and (with Dr Jones) at the site of Negroman-Tipu, a 16th- to 17th-century Maya frontier community. Mr Molyneaux recorded a recently exposed petroglyph site at McGowan Lake and several sites in Kejimikujik National Park, Nova Scotia. In Ontario, Dr Mima Kapches, assistant curator, conducted test excavations at two prehistoric Iroquois sites located east of Toronto and supervised four weeks of survey work for archaeological sites in Prince Edward County.

TEACHING, LECTURING, AND PROFESSIONAL PAPERS Dr Kapches and Mr Molyneaux presented papers at the annual meeting of the



Linda Shaw on contract with Exhibit Design Services works on a woolly mammoth for a diorama depicting the original peopling of the New World.

Canadian Archaeology Association in Halifax. Dr Kapches also chaired the Tenth Annual Symposium of the Ontario Archaeological Society and lectured at several historical societies and the Toronto Board of Education. Dr Graham presented a paper at the Twenty-Fourth Annual Meeting of the Northeastern Anthropological Association in Hartford, Connecticut. Photographs of native petroglyphs taken by Mr Molyneaux were shown at the National Gallery in Ottawa and the Art Gallery of Ontario. Dr Peter Storck, associate curator in charge, presented invited papers at symposia of the Ontario Archaeological Society (Toronto), the Geological Society of America (Indianapolis; with Dr Q. H. J. Gwyn of the Université de Sherbrooke), and the Eastern States Archaeological Federation (Salem, Massachusetts). He also lectured at the University of California (Santa Barbara) and McGill University.

A grant was obtained from the Canadian International Development Agency (Dr Graham, jointly with Dr Paul Healy, Trent University) for the training of Belizeans in archaeology.

LOANS AND VISITING SCHOLARS During the past year, nearly a dozen scholars and several university classes have examined collections in the department. The department made a number of loans of both original and cast material, ranging from a few to several thousand specimens, to various institutions (including the Art Gallery of Ontario, the National Museums of Canada, and Simon Fraser University) for purposes of display or research.

APPOINTMENTS In March Dr Storck was appointed to a three-year term as a director of the Ontario Heritage Foundation. The foundation is responsible for advising the Minister of Citizenship and Culture on matters related to the licensing and provincial funding of heritage-related activities.

TEXTILE DEPARTMENT

Louise W. Mackie, Associate Curator in Charge

The Textile Department had a demanding year as a result of staff changes, exhibitions, gallery development, and the limitations of a small staff's efforts to meet the expectations of the ROM and the public.

STAFF The department and the ROM staff were very sorry to lose Mr John Vollmer, former department head and Chinese textile scholar, to the Glenbow Museum in Calgary. Ms Adrienne Hood, who joined the staff as a curatorial fellow, brings a knowledge of Canadian textiles and weaving.

EXHIBITIONS AND RELATED ACTIVITIES The special exhibition *Silk Roads • China Ships*, spearheaded by Mr Vollmer and accompanied by a substantial publication, received acclaim during its showing at the ROM and continues to do so in the United States and Canada as it travels. A related lecture series, *Threads of Trade: Asia to the West*, was given by Mr Vollmer, Miss Louise W. Mackie, associate curator in charge, Mrs Katharine B. Brett, curator emeritus, and Mrs Mary C. Holford, assistant curator; it was sponsored by the Textile Endowment Fund Committee.

GALLERIES The textile gallery opened with two small display areas, one for looms and fabrics, including Canadian coverlets, the other for rotating cross-cultural and thematic exhibits. The first of these rotating exhibits, *Shawls in Fashion from East to West*, was curated by Mrs Holford and discussed in a lecture by Miss Mackie. In conjunction with the national Dance Canada Dance conference, Mrs Holford and Ms Hood organized *Theatrical Dress for Dance and Drama*, which displayed ballet costumes designed by Diaghilev and Picasso, among others.



Man's full-length coat, Tibetan, late 15th to early 17th century, in blue solid-pile velvet, with uncut designs of clouds, elaborate yoke, and bandings with couched gold five-clawed dragons.

Weekly demonstrations of spinning, weaving, lace-making, and embroidery presented production aspects related to the exhibits. They continue on Sunday afternoons, through the kindness of the Spinners and Weavers Guild, the Stitchery Guild, and Mrs Edith Starink, research associate for lace.

Archaeological Coptic and Islamic textiles were placed on view in the Islamic area of the Mediterranean World gallery. Planning went forward for textile and costume exhibits elsewhere in the Museum.

ACQUISITIONS An exceptional late 16th- to early 17th-century Chinese velvet made into a Tibetan robe was given by Dr Morton P. Shulman and Mr Samuel Sarick and received national treasure status under the Cultural Property Export and Import Act. Other notable gifts were an Italian 18th-century boy's jacket and a 17th-century Chinese silk made into a Tibetan robe, lined with cotton printed with Chinese clouds, donated by the Textile Endowment Fund Committee in honour of Mr Vollmer. Of sixty-five acquisitions, sixty-three were gifts and two were purchases.

COLLECTIONS MANAGEMENT The essential task of caring for the collections was overseen by Mrs Judith Cselenyi, technician. The restructuring of the catalogue-records data base to tie in with that of the Canadian Heritage Information Network was supervised by Mrs Kris Cruikshank, technician.

PUBLIC SERVICE The department received 330 visitors during the year, identified textiles and costumes brought in by some 100 visitors, conducted 16 tours through our impressive facilities, and welcomed many college classes, which studied parts of the collection.

Four day-long workshops on dress construction in 1834 and in the late 18th century were led by Mrs Holford, in preparation for Ontario's bicentennial and Toronto's sesquicentennial. Pattern diagrams of six 18th-century and three 19th-century dresses from the ROM collections, with accompanying text, were published by Mrs Holford and Miss Susan Barnwell of Ryerson Polytechnical Institute.

Fabrics were lent to the Art Gallery of Greater Victoria; the Musée Marsil, St Lambert, Quebec; and the Canton Art Institute, Canton, Ohio.

WEST ASIAN DEPARTMENT

Louis D. Levine, Curator in Charge

The past year was routine for the West Asian Department. Collectively, we acquired fourteen Persian paintings along with other miscellaneous pieces, gave forty-one public lectures, taught four undergraduate and three graduate courses, supervised eight Ph.D. and one M.Mus. dissertations, delivered fifteen papers at learned meetings and other professional gatherings, published fourteen articles in scholarly journals, were on radio twelve times, worked on four galleries and one major exhibition, organized and led a ROM members' tour, and did some research, committee work, and collections management as well. The only area in which we were dormant was field work, the situation in the Middle East continuing to make this activity difficult.

Activities in the ROM were the focus of our efforts this year, and all of them were ably orchestrated by our department secretary, Mrs Bardy Hart. Dr Louis Levine, curator in charge, worked on the Mankind Discovering gallery team and the Late Bronze Age Mediterranean gallery, and Dr T. Cuyler Young Jr, curator, on the Levant and Mesopotamian galleries. Mrs Carole Gilbert, our artist/draughtsman, also contributed her talents to the Mankind Discovering gallery with a fine drawing for the archaeology component in the analysis section. Dr E. J. Keall, curator, was one of three curators on the *Silk Roads • China Ships* exhibition team, and both he and Dr Lisa Golombek, curator, worked on the introductory areas to the Mediterranean World galleries, as well as redoing some of the Islam gallery labelling. Much of this activity also involved ancillary programs, such as radio spots in which the galleries and exhibit were publicized, and lectures around the themes of the displays.

In the department, three research assistants—Dr Elizabeth Henrickson, Mr Robert Henrickson, and Mr Robert Finnie—made good progress on the analysis of materials from the Godin and Mahidasht projects. Ms Rachel Barney, research assistant, helped in getting Dr Golombek's book on Timurid architecture ready for publication, and Mr Krzysztof Cuik, research assistant, continued his work with Parthian pottery. Mr William Pratt, technician, did fine work on the computerization of the departmental collection records, and by year's end had finally got on line to the data base in Ottawa. This allows us to correct and augment our records, and the system serves as a test case for all the art and archaeology departments at the ROM. Mr Pratt also looked after a number of loans, including the Ami collection of 823 specimens from the French Palaeolithic and Neolithic. This material will be studied over the next two years by Dr R. White of New York University, and the results will augment our records and substantially aid in curating this collection.

The department also took the Museum abroad. Dr Golombek (as resource person) and Mrs Hart (as coordinator) led a World Civilizations tour, organized by the MVC's travel committee, to Soviet Central Asia, which was so successful that another one is planned. The sites and cities that were visited—Bukhara, Samarkand, and Tashkent—conjure up visions of beauty and splendour, and the excitement of times past. Others travelled to less exotic points, but carried the flag nonetheless. Dr Keall spoke in London about his work in the Yemen, Dr Young in Tübingen on Godin, and Dr Levine in Leiden on computer applications and in Jerusalem on biblical archaeology. Numerous trips in North America were also used to present papers. Among these was one by Mr Henrickson in response to a special invitation to address the postgraduate seminar on the archaeology of the ancient Near East at Columbia University about his work on third and second millennia Iran. Mr Henrickson also made a successful defence of his Ph.D. thesis.

DEPARTMENT OF BOTANY

J. H. McAndrews, Curator in Charge

Because of curtailed resources we have undertaken no new initiatives in 1983/84; it was a time to consolidate recent advances and finish old projects. The ventilation system for the herbarium was completed.

ACQUISITIONS The vascular plant herbarium accessioned 3712 specimens. About 640 specimens were received on exchange. We exchanged 44 pollen reference slides with the National Museum of Natural Sciences, Ottawa. The cryptogamic herbarium accessioned 585 specimens and received 636 on exchange.

FIELD WORK AND RESEARCH Plant collections were made in Ontario, Minnesota, and Alberta. Mud was cored in six Ontario lakes at the request of the Ontario Geological Survey. Pollen analysis was done for the Department of Fisheries and Oceans and seed analysis for Parks Canada. Pollen analysis was undertaken in support of the thesis work of Dr J. Burns, Mr T. Edwards, and Ms P. McCaw. Dr R. B. Brown, postdoctoral fellow, worked two months on the pollen analysis of a lake-mud core from Grenada. Three radiocarbon dates on the core mud indicate continuous sedimentation in the lake for the past 25 000 years.

GALLERY DEVELOPMENT AND LOANS Staff contributed to the Mankind Discovering gallery and were consulted on other gallery development. Although the design phase had been completed for two botany gallery displays, *Plantscapes Through Time* and *Giant Pollen Grains*, their execution was delayed.

The herbarium loaned 2255 specimens to other herbaria.

TEACHING, LECTURING, AND OTHER PUBLIC SERVICES Dr John H. McAndrews, curator in charge, taught archaeobotany at the University of Toronto and gave seminar lectures at the U of T, the University of Waterloo, and Laurentian University.

In addition to answering many other inquiries, the department responded to 120 poison control calls, primarily from the Poison Control Centre of the Hospital for Sick Children, Toronto.

Ms Deborah Metsger, curatorial assistant, held plant identification workshops for Boy Scouts and groups from the Toronto Field Naturalists' Society. Dr McAndrews led an Ecological Society of America field trip in Minnesota.

DEPARTMENT OF ENTOMOLOGY

G.B. Wiggins, Acting Curator in Charge

The activities of the department over the past year reflect our objective to contribute to all sectors of the Museum's responsibility—acquisition and curation of collections, interpretation and education, and research. To do so, we rely very much on all members of our staff, and thank them for another productive year.

FIELD WORK AND ACQUISITIONS Field expeditions were undertaken to the Northwest Territories, Idaho and Colorado, the southeastern United States, and western Mexico. Large numbers of insects and mites were obtained and are being sorted and labelled for addition to the permanent collections.

As donations, the department received the important collection of Trichoptera from Oregon State University and substantial numbers of Ontario Lepidoptera from Dr E. G. Munroe and Mr Q. E. Hess. The second donation of photographic slides of insects from Dr W. A. Crich of Grimsby, Ontario, facilitated through certification by the Cultural Property Export Review Board of



Participants in the Trichoptera Workshop at Summit Lake, Colorado, conducted by Dr G. B. Wiggins.

Canada, adds to the department's collection some 3600 outstanding photographic slides to further our interpretive programs.

CURATION OF COLLECTIONS In addition to the new materials being added to the collections, work was continued on the other parts of the collection in the identification and improvement of labels, and on the large backlog of the Harrington collection of Lepidoptera.

GALLERY DEVELOPMENT AND EXHIBITIONS Transfer of the arthropod gallery to a new location following renovation of Museum exhibit areas was reported last year; but the permanent location of this gallery is to be level 2 of the new terrace gallery, where considerably more space will be available, and detailed planning for the new gallery was begun this year. The present gallery continues to attract favourable comment with its living arthropods and sound track of insect calls; a new live exhibit of Madagascar hissing cockroaches was installed.

RESEARCH In studies on Trichoptera by Dr G. B. Wiggins, acting curator in charge, five manuscripts were submitted for publication and work continued on six others; funding for this research was renewed for another three years by the Natural Sciences and Engineering Research Council of Canada. The studies on water mites by Dr David Barr, curator in charge, were continued, advanced particularly by field work in the Northwest Territories; a manuscript on army ants with research associate Dr W. H. Gotwald was submitted for publication.

TEACHING AND LECTURING As cross-appointed members of the professorial staff of the Department of Zoology, University of Toronto, Dr Barr and Dr Wiggins presented courses, directed and examined the work of graduate students, and served on various committees. Dr Wiggins offered a five-day workshop on Trichoptera at the invitation of the Mt Evans Research Station of the University of Denver, and was the keynote speaker at the Fourth International Symposium on Trichoptera at Clemson University, South Carolina.

OTHER SERVICES Dr Barr served as coordinator for the Museum public lecture series *Curators' Choice*, and as a member of the planning groups for the *From the Collections* exhibit and the Mankind Discovering gallery. He was chairman of the curatorial promotions committee, served on the associate director's advisory group, and was appointed acting associate director, curatorial, in April. He was coeditor of the special issue of *Seasons* magazine on ROM science departments and the author of two interpretive articles.

Dr Wiggins continued as vice-president of the Biological

Council of Canada. In the Entomological Society of Canada, he completed his four-year term on the executive; he continued as a member of the scientific committee of the Biological Survey of Canada and as the society's representative on the steering committee for the Canadian Congress of Biology.

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

E. J. Crossman, Curator in Charge

This year departmental highlights involved personnel changes and collection management, rather than expeditions. In September, Dr Alan R. Emery resigned as curator in the department, after ten years' service, to accept the position of director, National Museum of Natural Sciences, Ottawa. Dr Emery's extensive involvement at the ROM will be missed by the department and by others. As a result of commitments to a new herpetology gallery and of increasing professional and public interest in amphibians and reptiles, it was decided to fill the vacated curatorship with a herpetologist. There has been no herpetological curator at the ROM since Mr Shelley Logier retired in 1961. Dr R. Murphy of the University of California, Los Angeles, was offered and accepted the position. Mr David Boehm joined the staff as a volunteer.

Another highlight was the transfer of collection-management tasks of cataloguing and various other forms of record-keeping to a committed terminal connected to the Cultural Heritage Inventory Network at the National Museums of Canada, Ottawa. Miss Margaret Walters, technician, Mr Erling Holm, curatorial assistant, and Mr Ross MacCulloch, curatorial assistant, with the assistance of Miss Marili Moore and Miss Ragini Dayal of the ROM's collections management section entered just over eleven thousand records into the computer file this year. These represent both new incoming collections and older hand-catalogued records, the latter primarily of Ontario specimens. In addition to the established functions of the system, new programs are prepared that increase the efficiency with which information is entered or that organize it for special output formats such as reports. Another important achievement was the reorganization and computer-recording of the skeletal collections by Miss Walters.

In addition, an IBM-PC computer was installed. This will be used not only for departmental word-processing, but also as a terminal to the University of Toronto computer facilities for research computations.

ACQUISITIONS New collections accrued from staff field work in Ontario and Jamaica, from requests to other institutions for specimens of families not represented in the fish collection, and from provincial and federal agencies, consulting firms, and private individuals. The material made available to us by the Ontario Ministry of Natural Resources is important in this regard. Among the acquisitions are specimens of Atlantic salmon caught in Ontario, a sunfish new to the fauna of Canada from Lake Erie, and valuable specimens received from museums around the world in exchange for duplicate ROM collections from the Chagos and Fiji expeditions. The zoological value of the fish collection is increasing rapidly with the return to the ROM of the type specimens used by world authorities to describe new species in ROM collections from Chagos, Fiji, Africa, and Sarawak.

FIELD WORK Various staff members, including volunteers, took part in collecting or study trips to Jamaica, Pelee Island and Rondeau Bay of Lake Erie, Lake St Clair, and Wabigoon Lake, and also to localities closer to the ROM.

RESEARCH Dr Richard Winterbottom, associate curator, con-

tinued his work on the systematics of congrogadid and gobiid fishes, a checklist of Chagos fishes, descriptions of new species of Indo-Pacific fishes, and the identification of collections from Fiji and the Solomon Islands. Dr Emery was involved in the preparation of a checklist of fishes of Barbados, systematics of pomacentrid fishes, descriptions of new species of Indo-Pacific fishes, and a computer-based key to fishes of Canada using scale characteristics.

Mr Holm continued his studies of fishes of the genus *Anarchias*. He also identified apogonid, holocentrid, and pomacentrid fishes from the Fiji collections. In addition to his work on the special cleared and stained collections, Mr Stephen Campbell, curatorial assistant, identified fishes in the families Acanthuridae, Pleuronectidae, Bothidae, and Soleidae from the Fiji collections. He was also involved in an attempt to clarify the nomenclature of Chagos fishes in preparation for the checklist of that fauna.

Dr E. J. Crossman, curator in charge, was involved in studies of the zoogeography of fishes of the Hudson Bay watershed, the history of exotic freshwater fishes introduced into Canada, systematics and biology of esocid fishes, and the taxonomy of freshwater fishes of Sarawak, Malaysia.

Mrs Mary Burrige-Smith, research assistant, assisted Dr Winterbottom and Dr Crossman with aspects of various projects listed above.

GALLERY DEVELOPMENT Much time was spent on the Mankind Discovering gallery. Dr Winterbottom was most heavily involved, with planning and media promotion, having replaced Dr Emery on the gallery team. The curators were also involved in the planning of future life sciences exhibits on level 2 and, to a lesser extent, with the ichthyology and herpetology galleries. Mr MacCulloch specially posed and fixed specimens he collected in Jamaica so that moulds and models can be prepared for the future herpetology gallery.

EXHIBITIONS AND LOANS Mr MacCulloch continued cooperative development, with ROM Extension Services, of a travelling exhibit on northern amphibians and reptiles called *Adaptations to the Cold*. A significant part of the collections is out on loan at all times, either being used in the studies of other scientists or being examined and identified by specialists around the world.

TEACHING AND LECTURING The University of Toronto course in ichthyology was taught in the department by Dr Winterbottom and Dr Crossman. U of T graduate students Mr J. D. Reist (Ph.D.) and Mr J. F. Gorrie (M.Sc.), supervised by Dr Crossman, graduated, as did Miss Ang Mui-Hiang (M.Sc.), a Malaysian student supervised by Dr Emery. Dr Winterbottom acted as external supervisor for a Ph.D. candidate at Queen's University. Mr Bernard Lebeau from the Université de Montréal began Ph.D. studies under Dr Crossman's supervision.

Nine lectures at universities, scientific meetings, and public gatherings were given by various staff members. The ROM group, if we include a research associate, Dr J. Casselman, provided one of the largest contributions to the planning, and to the poster and verbal presentation, of an international symposium on the muskellunge in La Crosse, Wisconsin.

PUBLIC SERVICE The volume of public services remained large and of an almost indescribable variety. Services included the identification of specimens and the provision of information on newts, on ridding houses and cottages of snakes, on which sharks eat humans, and on a myriad of other topics.

APPOINTMENTS, AWARDS, AND HONOURS All three curators served as cross-appointed professors on the staff of the Department of Zoology, U of T, and as governors of the American Society of Ichthyologists and Herpetologists. In addition, Dr Emery was an associate editor of the journal *Copeia*, and president of the Royal

Canadian Institute. Dr Crossman served as president of the Canadian Society of Zoologists. He was appointed to the board of the Ontario Renewable Resources Research Fund and continued in an advisory capacity to the Committee on the Status of Endangered Wildlife in Canada, Muskies Incorporated, Muskies Canada, the National Freshwater Fishing Hall of Fame, the Ontario Federation of Anglers and Hunters, and the Esocid Research Committee of the Ontario Ministry of Natural Resources. He was the subject of a profile article in the magazine *Outdoor Canada* and received the 1984 Carling-O'Keefe Professional Conservation Award.

SPECIAL VISITORS There were a number of special visitors to the department from abroad. Particularly noteworthy visits were those of Prof. Xin-Luo Chu of the Kunming Institute of Zoology, Kunming, China, and Dr Douglass Hoese of the Australian Museum, Sydney.

DEPARTMENT OF INVERTEBRATE PALAEOLOGY

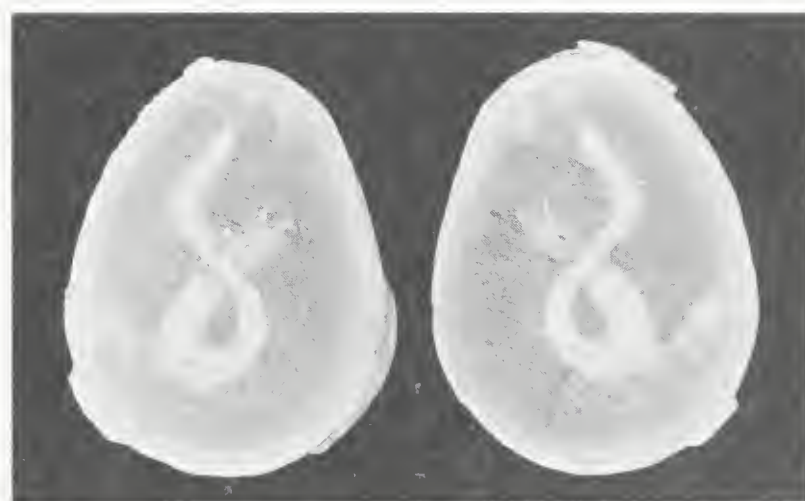
Peter H. von Bitter, Curator in Charge

An exciting part of this past year's activities was the CBC's filming of field work conducted by Dr Desmond H. Collins, curator, on the Burgess shale fossil fauna in Yoho National Park, British Columbia, for the program *The Nature of Things*. In addition to spending several days on the sides of Mount Stephen and Mount Wapta, the CBC crew filmed Burgess shale fossils and displays at the ROM and the Smithsonian Institution in Washington.

ACQUISITIONS A major acquisition was a large collection of fossil specimens from Mazon Creek, Illinois, one of the most extraordinary fossil faunas in the geological record. This fauna is of Carboniferous age (300 million years old), and includes wonderfully preserved terrestrial plants and insects and marine invertebrates. Most of these specimens will be used as a focal point in the new invertebrate palaeontology gallery.

FIELD WORK Dr Peter von Bitter, curator in charge, examined the Carboniferous rocks of the Cantabrian Mountains in Spain and, with Mrs Betty Eley, research assistant, explored Southern Ontario for chert resources that might have been used by Ontario's native peoples. Dr Collins and Mr David Rudkin, curatorial assistant, concentrated their field activities in British Columbia, searching out new fossil localities in the Stephen Formation.

RESEARCH Dr von Bitter's study on conodont taxonomy and phylogeny involved visits to Europe and the United States to confer with colleagues and to present papers at scientific



Esconites zelus, fossil polychaete worm from the Upper Carboniferous Francis Creek Shale of Mazon Creek, Illinois.

conferences. A lengthy study—with Mr W. von Hertzenberg—of Christian Pander, the “father of conodonts”, culminated in an annotated German translation of the original Russian biography, with English summaries.

Dr Collins continued his research on the fauna and stratigraphy of the Burgess shale. Included in the 1983/84 Burgess shale field collection was a ten-clawed animal, possibly ancestral to sea-scorpions, provisionally called “Santa Claws” until a more formal examination and description can be completed.

Research on abnormalities in fossil trilobites was one of Mr Rudkin’s projects, and Mrs Janet Waddington, curatorial assistant, with Dr Rolf Ludvigsen, research associate, gathered data for a study on Ontario brachiopods. The bryozoan fauna of Workman’s Creek was the interest of Dr Madeleine Fritz, research associate.

A guide for authors and editors contributing to the ROM series of life sciences publications was compiled by Miss Joan Burke, department secretary.

Departmental staff participated in the fifth annual ROM Research Colloquium, and the Canadian Paleontology and Biostratigraphy Seminar at the University of Toronto.

EXHIBITIONS Mrs Waddington and Mr Rudkin kept the department and fossils in the public eye with travelling exhibits throughout Ontario, and all staff members were heavily involved in the highly successful “Dinosaur Week” at the ROM.

TEACHING AND LECTURING Dr von Bitter continued a heavy teaching schedule at the U of T and supervised two M.Sc. students. Public and scientific lectures were given by the curatorial staff at meetings in Canada, Spain, and the United States.

PUBLIC SERVICE Our type and reference collections were used by scholars from Canada, England, West Germany, Australia, the United States, and the People’s Republic of China, either through loans or through visits to study and photograph specimens. Mrs Waddington, Mr Rudkin, and Mr Peter Fenton, technician, were kept busy by amateur fossil collectors, identifying their finds and advising them on preservation techniques.

Dr von Bitter, Mrs Waddington, and Miss Burke participated in the third annual “Run for the ROM”.

DEPARTMENT OF INVERTEBRATE ZOOLOGY

Dale Calder, Associate Curator in Charge

Curatorial departments at the ROM are considerably enriched by the activities of their research associates. With its small staff, the Department of Invertebrate Zoology is fortunate to have several distinguished research associates who work at the Museum on a regular basis. Among the more active in departmental affairs are Dr Anita Brinckmann-Voss and Dr Janis Speel, specialists in the Hydrozoa and Echinodermata, respectively. In addition, Dr Edward Bousfield, a specialist in the Amphipoda, was appointed a research associate in 1984. The Museum benefits greatly from the ideas, knowledge, prestige, and contributions of these zoologists.

ACQUISITIONS AND COLLECTIONS Dr Brinckmann-Voss donated a collection of hydroids and medusae acquired during a decade of research at the Stazione Zoologica di Napoli. A collection of slide-mounted oligochaetes, obtained from various parts of the world by the late Dr Randy Baker, was donated by research associate Dr R. O. Brinkhurst. The ROM’s rapidly growing collection of hydroids was expanded by new materials from Bermuda collected by Dr Dale Calder, associate curator in charge.

Other small acquisitions were obtained that added to the collections of molluscs and crustaceans. Cataloguing was continued through the efforts of Ms Janet Webb, a summer aide in 1983, and Mrs Catherine Baier, department secretary.

FIELD WORK AND RESEARCH Dr Calder spent two weeks at the Bermuda Biological Station collecting and studying hydroids and other invertebrates. Considerable progress was made over the past twelve months on his monograph on Bermudian hydroids. Several papers were published on hydroids and other benthic invertebrates, either independently or with his colleagues Dr R. F. Van Dolah and Mr D. M. Knott of South Carolina. Mrs Renate Carson, curatorial assistant, presented a paper at the International Conference on Bryozoology held in Vienna during July 1983. She also undertook research on bryozoans from Australia and South Carolina in ROM collections. Dr Brinckmann-Voss attended a conference on coelenterates at Friday Harbor, Washington, and continued her research on the life history of various species of *Sarsia* from the West Coast. Dr Speel spent much of her time investigating echinoderms from the Southern Ocean. Dr Bousfield conducted field work in Jamaica, undertook research on evolution and phyletic classification of the Amphipoda, and began an examination of ROM amphipod collections. Ms Leslie Newman, volunteer, conducted studies on Australian pteropods as water-mass indicators, and investigated hydroid-pteropod interactions.

TEACHING AND LECTURING Dr Calder joined Dr David Barr, Department of Entomology, in teaching an advanced course in invertebrate zoology for the Department of Zoology, University of Toronto.

PUBLIC SERVICE Identification services and general information were provided as needed to the public. Requests for assistance with mollusc shells continue to predominate. Most calls for general information were processed by Mrs Baier. Invertebrates from the collections were used for both scientific and educational purposes. Several manuscripts received from scientific journals for review were refereed and returned, and requests for scientific reprints were filled. Dr Calder gave an interview, illustrated with specimens from the collections, to CFTO-TV, and served as a consultant to several magazines and television programs.

GALLERY DEVELOPMENT Preliminary planning was undertaken, in conjunction with personnel of the Entomology, Invertebrate Palaeontology, and Exhibit Design Services departments, for the invertebrate galleries, scheduled for completion in 1988.

APPOINTMENTS Mrs Baier replaced Ms Katherine McGrath as department secretary. Dr Bousfield was appointed a research associate.

DEPARTMENT OF MAMMALOLOGY

Randolph L. Peterson, Curator in Charge

The department received exciting news during the past year when it was informed that funds had become available to develop and design a bat exhibit in connection with the new gallery.

A major step by the department was the purchase of three Zorba computers to aid in cataloguing the collection. These will provide cards and labels for all specimens and centralize collection data for the first time, thus facilitating the updating of information.

ACQUISITIONS AND COLLECTIONS Notable among the 47 acquisitions of 1732 specimens obtained by the department during the year were collections from St Clair Cave in Jamaica and Lake



St Clair Cave, Jamaica, which will be used as a model for the "bat cave" in the mammalogy gallery.

Superior Provincial Park made by staff members, and donations made by various individuals and institutions from Georgian Bay Island National Park and Algonquin Park. An interesting addition was a free-tailed bat collected on a ship off the coast of Nova Scotia, far from its usual habitat in South America.

FIELD WORK AND RESEARCH Field work took place in Lake Superior Provincial Park, in Jamaica, and in Kruger National Park, South Africa. Dr Randolph L. Peterson, curator in charge, continued his work on Malagasy bats and Dr James R. Tamsitt, curator, studied specimens at several institutions in Colombia as part of his ongoing research on neotropical bats. Ms Judith Eger, curatorial fellow, continued her studies of arctic mammals and successfully defended her Ph.D. thesis at the University of Toronto in June.

TEACHING AND LECTURING Dr Tamsitt taught the course in mammalogy offered by the U of T and, as visiting professor at the Institute of Natural Sciences, National University of Colombia, gave a graduate course in animal systematics in Spanish.

Talks were also given by staff members to the Kitchener Field Naturalists' Club, to the Toronto Junior Field Naturalists' Club, and to several schools, including the Lake St George Field Centre. Dr Peterson was invited to give the annual Vaughan Lecture at the ROM in November and spoke on the bats of Malagasy.

GALLERY DEVELOPMENT Gallery development was concentrated on the planning of a bat gallery, which is to take the form of a cave, modelled after St Clair Cave in Jamaica. A field trip in March resulted in excellent film footage and many specimens. Various aspects of bats, including facial features and different habitat and food requirements, will be examined in the exhibit, as will the beneficial effects of bats on the environment. This will be a truly exciting exhibit and we look forward to its completion next year.

Planning also continued on the New World section of the gallery and field work took place in Algonquin Park for the hardwoods forest diorama.

LOANS Twenty-six loans were made during the year to institutions in Europe, the United States, and Canada for research and for illustrative and educational purposes.

DEPARTMENT OF MINERALOGY AND GEOLOGY

S. B. Lumbers, Curator in Charge

Curators devoted an unusually high proportion of their available time to working with the design consultants—Mr J. J. André of Victoria, British Columbia, and Mr K. Verburg of Marshall Macklin Monaghan Ltd, Toronto—to bring about a spectacular new earth sciences gallery in the shortest possible time. Moreover, the success of the current ROM galleries fund-raising campaign, under the enthusiastic leadership of Mr Edwin Goodman, chairman of the board of trustees, will permit the new gallery to open sooner than initially expected. The department participated in the kick-off reception for the campaign by providing a display of spectacular gold specimens from its collection.

ACQUISITIONS AND COLLECTIONS About 850 specimens were added to the petrology collection and over 1100 specimens were registered into the mineral collection. Included in the mineralogy specimens were 228 gemstones and 26 mineral species new to the collection.

RESEARCH AND FIELD WORK Notwithstanding curatorial involvement in gallery planning, research continued to play a major role in the work of the department, not only because of extra effort by the curators, but also because of our efficient and dedicated technical and secretarial staff. About seven hundred routine X-ray powder diffraction identifications were made in the X-ray diffraction laboratory, and forty minerals were analysed in the thermoanalyser laboratory. Over six hundred isotopic analyses were made in the Jack Satterly geochronology laboratory. The new mass spectrometer has allowed several new studies to be undertaken, and the geochronology laboratory now produces more high-precision U-Pb zircon analyses per year than all the geochronology laboratories in the rest of Canada combined. The growing stature of the department's collections and analytical laboratories among the scientific community continues to attract graduate students and scientists, both from Canada and from abroad, to its facilities.

In addition to spending considerable time on inventory work on the mineral and gem collections, Dr Robert Gait, curator, conducted research on star quartz from Sri Lanka, star beryls from Brazil, and minerals from the Nanisivik mine, Baffin Island. Dr Thomas Krogh, curator, Dr D. W. Davis, research fellow, and Dr Fernando Corfu, Ontario Geological Society geochronologist, completed several projects on the geochronology of Archean and Proterozoic rocks in Ontario, and new projects were initiated in both Ontario and Manitoba. Dr S. B. Lumbers, curator in charge, and Mr Vincent Vertolli, curatorial assistant, continued their research on the evolution of the Grenville Geological Province of Ontario. Dr Joseph Mandarino, curator, completed research on the rare mineral schultenite and continued his research on (1) the application of the Gladstone-Dale relationship to the assessment of mineralogical data; (2) the compilation of data on the mineralogy of Mont St Hilaire, Quebec; and (3) some rare borate minerals from New Brunswick. Dr Fred Wicks, curator, continued his studies on the mineralogy and geochemistry of chrysotile asbestos deposits in Ontario and Quebec, and on the crystal structure and crystal chemistry of the serpentine minerals. Mr Darko Sturman, associate curator, continued research on methodology in optical mineralogy, and he commenced the study of two new minerals.

Curators conducted field work in Ontario and Manitoba to collect specimens and data for research projects. Dr Lumbers participated in a field excursion to the Andes of Ecuador and to the Galápagos Islands to study recent volcanism.

GALLERY DEVELOPMENT AND EXHIBITIONS Curators, working with the design consultants, completed a theme structure and a theme and message analysis for the new earth sciences gallery. This work is now being used by the designer, Mr André, to create preliminary design concepts for the gallery. Work was also begun on selecting specimens for the gallery, collecting background material for displays, and identifying needs for special gallery specimens.

LOANS Forty-three researchers and institutions requested and received study material and photographic slides during the year: 120 specimens were supplied, either on loan or as nonreturnable fragments, and 96 slides were supplied to various individuals.

TEACHING AND LECTURING Dr Gait gave five popular lectures to gem and mineral clubs in Ontario, and he visited several gem and mineral shows, gem laboratories, and gem museums in North America. Dr Krogh, Dr Mandarino, and Dr Walter Tovell, honorary curator, taught courses in conjunction with the Department of Geology, University of Toronto. Dr Krogh, Dr Lumbers, Dr Mandarino, and Dr Wicks supervised undergraduate and postgraduate theses at various Ontario universities. Dr Lumbers was an outside examiner for a Ph.D. thesis at the University of Western Ontario. Dr Krogh, Dr Lumbers, Mr Vertolli, and Dr Wicks gave papers at the Geological Association of Canada and Mineralogical Association of Canada meetings in London, Ontario, and Dr Krogh gave a paper at the northeastern sectional meeting of the Geological Society of America in Providence, Rhode Island. Dr Mandarino gave a lecture to the Walker Mineralogical Club.

PUBLICATIONS Twelve papers were published (see staff bibliography). Nine others were submitted for publication, and five of these are now in press.

PROFESSIONAL AND PUBLIC SERVICE The department performed 130 identifications of minerals, gems, and rocks for the general public and several identifications of rocks and minerals for other ROM departments. Dr Wicks served as a mineralogical consultant to the Royal Commission on Matters of Health and Safety Arising From the Use of Asbestos in Ontario.

APPOINTMENTS, AWARDS, AND HONOURS Dr Krogh was awarded a total of \$71 000 from the Natural Sciences and Engineering Research Council—\$24 000 representing the first instalment of the three-year operating grant, and \$47 000 representing the first instalment of a three-year infrastructure grant. Dr Wicks received five grants totalling \$73 107; two NSERC grants for operating and equipment totalling \$34 907, a \$29 450 renewal of an Ontario Geoscience research grant, \$7500 renewal of an Energy, Mines, and Resources grant, and \$1250 representing the first instalment of a four-year grant from the Birks Family Foundation.

Dr Mandarino continued to serve as subscription manager of the Mineralogical Association of Canada, chairman of the Commission on New Minerals and Mineral Names of the International Mineralogical Association, chairman of the ethnology search committee, and member of the disposal review committee and the collections committee of the ROM board of trustees. He has been granted a six-month's sabbatical to begin in January 1985. Dr Lumbers remained a corresponding member of the Subcommittee on Precambrian Stratigraphy of the International Union of Geological Sciences. Dr Wicks was appointed curatorial adviser to the ROM associate director, curatorial.

DEPARTMENT OF ORNITHOLOGY

Allan J. Baker, Curator in Charge

Field work for ongoing gallery development and long-term research projects continued to be an important part of departmental activities. This work has enhanced our collections and provided a wealth of ornithological information, much of which will ultimately be reflected in the quality of our gallery displays.

ACQUISITIONS In 1983/84, almost one thousand specimens were added to the collections.

FIELD WORK AND RESEARCH With grant support from the Natural Sciences and Engineering Research Council of Canada, Dr Allan Baker, curator in charge, visited New Zealand to continue studies of mynas and chaffinches and to collect for the gallery. He also visited the Azores, Madeira, and the Canary Islands to study isolated populations of chaffinches. Grant support from the Canadian Wildlife Service enabled him to conduct studies of shorebird populations. Dr Jon Barlow, curator, continued his NSERC-funded studies of vireos in Texas and of European tree sparrows in Illinois. Dr Ross James, associate curator, travelled to various regions of Ontario to study distribution and abundance of breeding birds. He also recorded bird song and collected specimens for upcoming displays in the gallery.

LOANS Our extensive collections enabled us to make 138 specimen loans to artists and woodcarvers. Loans were also made to colleagues throughout Canada, the United States, and Europe; recipients included the Canadian Wildlife Service, the Alberta Provincial Museum, the American Museum of Natural History, the University of Florida, and the University of Amsterdam. Slides from our photographic collection were lent to naturalists' clubs and schools.

TEACHING AND LECTURING Dr Baker taught the course "Statistical Methods of Classification in Biology" at the University of Toronto and also an advanced topic of the biology 110 course—"Tactics of Evolution". He supervised six graduate students. At the meeting of the American Ornithologists' Union, Dr Baker delivered a lecture on genetic variation in shorebird populations. He spoke to the Richmond Hill Naturalists' Club on oystercatchers and to the Simcoe "Dinosaur Daze" on prehistoric birds. Dr Barlow taught the course "Systematic Ornithology" at the U of T and supervised six graduate students. He lectured on the



Young Arctic loon at Cape Henrietta Maria, Northern Ontario.

song of the St Andrews vireo at this year's meeting of the American Ornithologists' Union. At the Chihuahuan Desert Research Symposium, Dr Barlow talked about winter territorial behaviour and song of grey vireos. Dr James taught another session of the continuing education course "Introductory Ornithology" at Leaside High School and gave a talk on Ontario birds at the Leslie Frost Centre in Dorset, Ontario.

OTHER PUBLIC SERVICE Mr James Dick, curatorial assistant, gave a tour of our facilities to the Kitchener Naturalists' Club, and provided *Owl* and *Chickadee* nature magazines with assistance and information. He and Dr James judged bird woodcarvings at the Canadian Sportsmen's Show and the taxidermy exhibits at the Hunting Show. Dr James was interviewed on two occasions by CHFI radio, providing information on passenger pigeons and wild turkeys.

APPOINTMENTS, AWARDS, AND HONOURS Dr Baker was promoted to associate professor in the Department of Zoology at the U of T. Dr Barlow was elected chairman of the board of scientists, Chihuahuan Desert Research Institute, and was reelected vice-president of the Cooper Ornithological Society. He was also appointed to the editorial committee for proceedings of the Nineteenth International Ornithological Congress. Dr James continued as chairman of the ornithology subsection of the Committee on the Status of Endangered Wildlife in Canada and served on the technical advisory committee of the *Ontario Breeding Bird Atlas*.

DEPARTMENT OF VERTEBRATE PALAEONTOLOGY

Christopher McGowan, Curator in Charge

Dinosaurs, as we often tell visitors, are not the department's only stock-in-trade, but they certainly figured prominently in its affairs this year. The week of school break, 12-18 March, was designated "Dinosaur Week", with behind-the-scenes visits, quizzes, identification clinics, and other activities in the two palaeontology departments. Not all the Museum's 50 000 visitors that week came solely to see the dinosaurs, but we like to think that most of them did.

Then, in late May, Dr A. G. Edmund, curator, and Dr Christopher McGowan, curator in charge, left Toronto to prospect for dinosaurs in some little-explored fossil localities in Mexico. The sediments, which are Late Cretaceous in age, are rich in dinosaur bones, and since they have been left virtually undisturbed large quantities of material were discovered, including associated skeletons. The Mexican authorities, who were exceedingly helpful, look forward to further ROM explorations. We hope to obtain funds to support a collecting program, in cooperation with the Instituto de Geologia in Mexico City; it is a long time since department members were last in the field. Dinosaurs also figured prominently in public service outside the Museum, with five speakers participating in Simcoe's "Dinosaur Daze".

A highlight of one of the research programs of the department was the publication of an article in *Nature*, with a cover picture of one of the photogenic embryos that were used in the study. Subjects of media interviews ranged from giant ground sloths to extinct jaguars.

Mr Gordon Gyrmov, chief technician, and Mr Rudy Zimmerman, machinist, completed reorganization of the fossil preparation laboratory. Now that the lab is fully functional we hope to retrieve our lost technical position, so that we can make progress on our backlog of unprepared fossils. The problem of displaying the magnificent dinosaur skulls that are now located in the stor-



Dr Gordon Edmund and Mexican student Jaime Alvarez examine a dinosaur leg bone in the Chihuahua desert near Saltillo, Mexico.

age/display area at the north end of the dinosaur gallery was resolved by Mr Zimmerman, who designed and built a series of elegant steel stands to support them.

We were sorry to lose Miss Arlene Reiss, our curatorial assistant, who has moved to Boston, and welcome her replacement, Mr Kevin Seymour, who is a specialist in extinct big cats. Dr Jeffrey Thomason, having successfully defended his thesis, was awarded his Ph.D. and has taken a postdoctoral fellowship at the University of Calgary. Mr Greg McDonald, who is nearing completion of his Ph.D., has moved to Idaho to take charge of the palaeontology collection preparatory to assuming the position of curator in the Museum of Natural History, Pocatello, Idaho.

Dr Loris Russell, curator emeritus, was honoured with the Billings medal of the Geological Association of Canada for his outstanding contribution to palaeontological research. Dr Russell, Dr C. S. Churcher, research associate, Dr Edmund, and Dr McGowan received research grants from the Natural Sciences and Engineering Research Council of Canada.

Mrs Pamela Purves, department secretary, spent several weeks familiarizing herself with the use of our new displaywriter, which was purchased with funds generated by the department from the sale of dinosaur replicas.

We were fortunate in having Miss Tiina Kurvits, Mr Chris Neill, and Miss Cathy Yasui working in our lab under the auspices of the Summer Canada Works Program Community Stream; they were updating our modern osteology collection. Miss Karen Tomson and Miss Mary Hayes from Summer Canada Works Federal Stream worked part time with our collection management.

CONSERVATION DEPARTMENT

Susan Wilson, Head

The Conservation Department had an eventful year, marked by staff changes and a challenging pace of work.

After twenty-six years at the ROM, Mrs Elizabeth Phillimore, conservator, special projects, retired. A former department head, she has most recently supervised the conservation of the massive Chinese wall paintings of the Bishop White gallery, which reopened in November 1983. During her career, the department's staff increased eightfold and its effectiveness and influence increased in like proportions, largely through her efforts.

Mr George Rogers, department head since October 1980,

resigned in August 1983 to pursue his work with computers. His knowledge of chemistry and microclimates is sorely missed. Miss Susan Wilson, wood conservator since 1974, succeeded him in January 1984.

The department undertook a wide assortment of treatments, mainly for major exhibitions and new galleries. Ms Diane McKay, paintings conservator, treated canvases for the *Georgian Canada: Conflict and Culture* exhibition and the Paul Kane display. Contract conservator Ms Karen Colby repaired forty of the frames for these works. Technicians Ms Joan Pletsch and Ms Janice Brodie have treated seventy musical instruments for a gallery opening in July 1984. Miss Susan Stock, technician, is working on hundreds of bronzes for the future Greek and Roman galleries. At a particularly busy time, Mr George Pawlick, ceramics conservator, and Mrs Ewa Dziadowiec and Mr Enno Busse, technicians, raced to assemble three pottery vessels recently unearthed in Belize, in time for the opening of the Mankind Discovering gallery.

An unusually large number of loans were processed this year. In addition to maintaining all treatment records, Mrs Susan Richardson, documentation officer, and her assistant, Miss Carla Fleck, wrote 3660 condition reports on artifacts lent to or by the Museum. Highlights of their work include preparation of illustrated reports for all 245 artifacts in *Silk Roads • China Ships*, which is now travelling for two years.

The department made improvements in environment control. Metals conservator Mr Christopher Toogood and Mr Busse perfected the manufacture of small access ports in case vitrines, which allow entry of environmental monitors into a case without disturbing the internal atmosphere. Decorative arts conservator Ms Marianne Webb designed a climate-controlled case to transport a Chinese lacquer Torah case to an exhibition in Tel Aviv. Ms Pletsch has improved the department's environmental monitoring of the storage areas by systematizing the calibration of and by relocating the department's ten hygrothermographs.

Conservation staff have been busy outside the Museum as well. Ethnographic conservator Ms Julia Fenn presented a paper on leather at an American Institute for Conservation workshop and attended the Institute's annual conference in Los Angeles; four other conservators made presentations at the annual conference of the International Institute for Conservation—Canadian Group in Peterborough. Textile conservator Mrs Izabella Krasuski had the greatest number of consultations with the public on artifact care, averaging more than two visitors and ten telephone inquiries per week. Miss Wilson sat on the advisory committee of the art

conservation techniques program of Sir Sandford Fleming College and on the Ontario conservation advisory committee.

The department welcomed many visitors, notably Ms Mary Peever who came for one month from the Canadian Conservation Institute to the ethnographics lab. Five interns from conservation programs at Queen's University and Algonquin and Sir Sandford Fleming colleges trained in the department. One of them, Miss Cara Reeves, has continued with the department as a technician in textile conservation.

The Conservation Department thanks the National Museums of Canada for continuing generous support of a technician's position. Thanks are also due to volunteers Miss May Jarratt and Mrs Lynne Black for their good cheer and commitment, and to Ms Anneliese Anthony for her constant secretarial endeavours.

LABORATORY OF ANALYTICAL SYSTEMATICS

Kian E. Chua, Supervisor

The laboratory, a joint project of the ROM and the Department of Zoology, University of Toronto, continued to provide histological, biochemical, and analytical chemistry and radiographic services to the ROM and to professors and students.

During the past year the laboratory staff undertook the following projects: preparation of histological sections of newt limbs in a study of their regeneration; histological sections of bird embryos for a study of evolutionary relationships of ratites and carinates; and spectrophotometric and gas chromatographic analyses of phospholipid contents in mutant and normal fruit flies for a study of genetic influences on morphological development. Concentrations of nickel and copper were measured in samples of phytoplankton by atomic absorption analysis. Work was continued on a cooperative project with the Ontario Ministry of Natural Resources to establish specific electrophoretic criteria for identifying game fish from samples of flesh and eggs. In a project undertaken for ROM Collections Management, gas chromatographic analysis was employed to test levels of ethylene oxide remaining in objects after fumigation, a significant problem in safeguarding the health of operating personnel. Use of the radiographic laboratory continued at a high level.

In April 1984 Dr Kian Chua, supervisor, gave a talk, "How Is Your Lab Safety and Health Environment?", at the Sixty-Seventh Annual Conference of the Industrial Accident Prevention Association held in Toronto. In June Mr Cary Gilmour, laboratory technician, attended a seminar on the use of fused silica capillary columns in gas chromatography—a new advance in analysis giving faster, more accurate, and more sensitive gas chromatographic analyses, which we hope to add to the laboratory.

LIBRARY AND ARCHIVES

Julia Matthews, Head Librarian

The library exists primarily to meet the information needs of Museum staff. We are pleased that its convenient ground-floor location has attracted more public visitors than ever this year. Most are university students from Ontario and beyond; an increasing number are staff from other museums.

On a typical day in the library, staff members catalogue thirty books, process fifty journals, and answer fifteen reference questions by letter, by phone, and across the desk. We continue to be heavily used as a lender by other institutions, our early and



Miss Cara Reeves, conservation technician, cleans metal threads of an 18th-century embroidered silk apron.

foreign language serials being prime requests. There are now more than 85 000 volumes in the collections. Identifying missing items and verifying our records were major projects in which all staff participated. We continue to develop microcomputer applications and receive many visits and inquiries connected with this aspect of our work.

STAFF Julia Matthews became head librarian on 1 July 1983. Mrs Isabella Guthrie-McNaughton was promoted to associate librarian. Mrs Marion Press resigned to oversee a cataloguing project at the Ontario Institute for Studies in Education, and Ms Julia Webster joined us as assistant librarian. We were exceptionally fortunate to have the volunteer services of Mrs Susan St. John in cataloguing rare books as a special University of Toronto Library Automation Systems project. Our summer student, Lillian Gilmour, is working to determine the need for an institutional records-management policy.

PROFESSIONAL ACTIVITIES The library is a member of the Council of Campus Libraries at the University of Toronto, and also, as of this year, of the Ontario Government Libraries' Council. In addition, staff are active in a number of professional organizations, as well as serving on Museum committees. We act as a field placement centre for library technicians in training; we had two students this year.

DONATIONS The transfer of books from the Ontario Museum Association's Resource Centre greatly strengthened our holdings in museology; in return, we have extended services to OMA members. Among the many generous gifts were Dr Jack Satterly's splendid collection of field guides and other ornithological works; Egyptian material from Mr Geoffrey Freeman; the handbooks of Middle and South American Indians as well as the series *Ancient People and Places* from Mr Benjamin Holmes; and a portfolio *Salmon Canada* from Mr Noah Torno.

ARCHIVES The archives received material from several departments—Canadiana, European, Exhibit Design Services, Programs and Public Relations, Ichthyology and Herpetology, Publication Services, Membership Services, and Personnel—and the board office. In addition, a number of special collections were received from individuals: sketchbooks by Charles Trick Currelly from Judge John Currelly, Mrs Suzanne Hamilton, and Mrs R. T. Currelly; the Stirrett papers on the Great Lakes Ornithological Club from Prof. and Mrs Robert Stewart and Prof. John Cranmer-Byng; ROM history papers from Miss Dorothea Hecken; and ROM photographs from Dr Walter Tovell. These collections have enriched the archives and are much appreciated.

Mrs Helen Downie, formerly programs secretary with the ROM, has completed her volunteer organization of the files on the hundreds of exhibitions held in the ROM from 1934 to 1977. Students and scholars of the present and of the future will use this remarkable record.

McLAUGHLIN PLANETARIUM

Thomas R. Clarke, Head

The highlight of the past year was innovation in show production, particularly in *Stars over China*, designed to complement the *Silk Roads • China Ships* exhibition. The Planetarium show featured on-location photography to bring the sights and astronomical history of China into the Star Theatre with astounding realism. The digital sound-synthesizer was used to create a sound track that evoked oriental music.

STAR THEATRE PROGRAMS *Public Shows:* In the course of the year the Planetarium presented seven different shows, including three new productions. During the installation and maintenance periods between shows, a live "Star Talk" was given each evening. In addition, a shorter version of the talk was given to various youth groups on thirty-one occasions, just before the regular evening public show. *School Shows:* Six age-graded school shows were offered in 1983/84, among them a new production, *The Cosmic Question*, which deals with concepts of extraterrestrial life and was designed for the group aged seven to ten. *Light Shows:* Because of declining audiences for Laserium shows, the Planetarium decided to end its long association with Laser Images Inc. Since 5 October 1983, laser light shows in the Star Theatre have been produced by Audio Visual Imagineering. Their initial show, *Laser Floyd*, did very well over the subsequent eight months and was not replaced by their new show, *Laser Zeppelin*, until 12 June 1984.

ATTENDANCE Public show attendance increased 6.5 per cent compared with the previous year, to a total of 114 372 for 891 shows. School-show attendance was down slightly, 2.8 per cent, to 49 238 for 279 shows. With the rejuvenation of light-show programming under Audio Visual Imagineering, attendance has risen 40.9 per cent, to 82 332 for 593 shows.

GALLERY DEVELOPMENT AND DISPLAYS Very preliminary development has begun for the planetarium gallery, with the preparation of a design competition package to be used in the selection of a suitable designer. Laser video disc technology and holography were investigated for possible use in a new gallery.

IMPROVEMENTS AND TECHNICAL DEVELOPMENT Considerable effort was put into a new theatre automation system, which had to be abandoned; alternative systems are under consideration. Changes in the theatre sound system brought improvements in clarity and bass reproduction. Other improvements on a lesser scale were made to projector systems and the Zeiss projector. Two new pieces of equipment were built: a model table 3.65 m in diameter, on which three-dimensional planets can be sculpted and then photographed for 360-degree projection; and a large light table with a capacity of more than six hundred slides that permits an entire show to be laid out. In preparation for change to electronic ticketing, the box office was renovated and enlarged. A second box office was installed on the second floor to serve visitors moving to and from the Museum galleries.

TEACHING AND LECTURING Thirteen special lecture-demonstrations were given to a total of 1710 postsecondary students representing six institutions. Special Star Theatre lectures were also provided to members of the Royal Astronomical Society, the Saturday Morning Club, and Power Squadrons. Five courses were conducted by Planetarium staff, with a total of 40 sessions and 483 participants. In conjunction with Extension Services, another very successful broadsheet—this one featuring the moon—was produced for Ontario schools.

OTHER PUBLIC SERVICE The astronomical information line received an average of twenty-five calls per day, though during events such as the partial eclipse of the sun of 30 May 1983 the number rose to nearly fifty a day. A major public education effort was mounted to ensure that the eclipse would be observed safely. In support of smaller planetariums in Ontario, a one-day conference was organized; it was attended by representatives of five or six other operating planetariums in the province.

Twenty-three public lectures on a variety of astronomical topics were given at various venues outside the Planetarium. On seventy-eight occasions staff were involved in interviews or programs with print or electronic media. A total of 21 slide and film loans involving 424 items were made.

PREPARATORS DEPARTMENT

Vivian Peverley, Head

During 1983/84 much of the department's time was devoted to preparing for two major shows. One of these, *Silk Roads • China Ships*, after the close of its Toronto showing in January, began a tour of the United States and Canada. In addition to the large number of plastic mounts that had to be designed and fabricated for the show, shipping crates and packing materials had to be determined. ROM preparators dismantled and packed the exhibition, accompanied it to its first stop, the American Museum of Natural History in New York, and there unpacked it and set it up. The procedure was repeated when the show moved to the Cincinnati Art Museum.

The second major show was the very exciting *Georgian Canada: Conflict and Culture 1745–1820*, for which the preparators had to deal with objects borrowed from more than fifty lenders, including Her Majesty The Queen.

Other temporary exhibits that the department worked on during the year are listed in the Exhibitions Department's report.

At the same time, gallery work went on. The preparators were involved in the installation of the Mankind Discovering and the Bishop White galleries and worked on the musical instruments gallery that will open in August 1984. Requests from curatorial departments and incoming and outgoing loans were also dealt with in this period.

During the year Ms Wendy Kritzer transferred to the European Department and two new preparators joined the staff: Mr David Bush, who came to us from the Ontario Science Centre, and Mr Brian Dines. With these appointments the department is back to full strength.

REGISTRATION DEPARTMENT

Sonja Tanner-Kaplash, Registrar

This year two complex exhibitions, *Silk Roads • China Ships* and *Georgian Canada: Conflict and Culture*, provided opportunities for the Registration Department to develop word-processing and computer applications to assist in scheduling, transportation, and documentation. Long-range plans to expand computerized documentation of the permanent collections were also tested and implemented.

As part of its responsibility for the Museum's fine arts insurance requirements, the department coordinated the ROM's participation in the Ministry of Citizenship and Culture Fine Arts Insurance Program, which provided coverage for *Georgian Canada* and for five smaller travelling exhibitions.

When Mrs Sonja Tanner-Kaplash, registrar, accepted a cross-appointment to the graduate Museum Studies Program at the University of Toronto in September 1984, Mrs Lissa Peck, assistant registrar, took on additional responsibilities for the operation of the department.

ACQUISITIONS AND RECORDS This section, headed by Ms Gillian Pearson, coordinator, assisted by Ms Sandra Kirkpatrick, registration assistant, and Ms Lorraine Underell-Mason, recorder, processed a total of 250 gifts, purchases, and bequests, including 12 donations certified under the Cultural Property Export and Import Act. A notable trend was the increase in tax-receipt requests made by donors to science departments and to the Museum library.

Using a computer system provided by the Canadian Heritage Information Network in Ottawa, the department has maintained an artifact location record since 1978, and is now adding more

categories of administrative information to assist in the preparation of statistical analyses and reports on the art and archaeology collections.

CUSTOMS AND SHIPPING SECTION Mr Barry McQuade, coordinator, assisted by Mrs Leigh O'Mara, registration assistant/recorder, arranged transportation and customs formalities for a wide array of artifacts, specimens, goods, and equipment. A specialized computer program developed by the section facilitated the sorting of data on the more than 400 artifacts for the *Silk Roads • China Ships* exhibition tour into different formats required for transportation and customs purposes, as well as for loan agreements, insurance, packing, and exhibit installation. Another major challenge was the safe and timely arrival of paintings, furniture, and silver from 54 international lenders for *Georgian Canada: Conflict and Culture*.

LOANS SECTION Ms Heather Maximea, coordinator, assisted by Ms Susan Haight and Mrs Adele Zwimpfer, registration assistants, worked to bring to Toronto audiences a number of popular temporary exhibitions such as *The Perfect Setting*, Canadian glass and tableware designed for Rideau Hall, Ottawa. Coordinating the complex scheduling and contractual arrangements for loans to *Georgian Canada: Conflict and Culture* required loan staff to interact with colleagues in four countries.

Through loans, the ROM also participated in exhibitions mounted by other institutions to celebrate the bicentennial year, including *The Four Quarters* at the Art Gallery of Ontario, the Canadian War Museum's *The Loyal Americans* and *Two Hundred Years Along the Grand* at the Woodland Indian Cultural Centre, Brantford. Outstanding among international loans from Museum collections was that of the Torah case and other items from the Jewish community at Kaifeng, China, to the Museum of the Jewish Diaspora in Tel Aviv, Israel.

TEACHING, PUBLICATIONS, AND PUBLIC SERVICE As in the past, the department provided assistance to many outside institutions and agencies and participated actively in the work of professional associations. Departmental staff organized a three-day seminar, "Registration, Records, and Research", as part of the Ontario Museum Association certificate in basic museum studies. Mrs Tanner-Kaplash served as a member of an OMA working group established to advise the Ministry of Citizenship and Culture regarding policy on computer applications in museums and art galleries.



Mrs Lissa Peck conducts a tour of the Registration Department for students in museum studies from the Université de Montréal.

Operations

Henry Graupner, Associate Director

As noted by the director earlier in this annual report, the office of associate director, operations, was established on 1 July 1983. At that time Mr Henry Graupner assumed operational responsibilities in the ROM, just as his work as project director for the renovation and expansion of Museum facilities came to an end.

After the retirement of Mr R. McCartney Samples in September 1983, all the departments formerly encompassed in the education-and-communications and administration-and-facilities streams came under the umbrella of the office of associate director, operations. A number of organizational revisions were then made, along with related staff changes, to provide the necessary management emphasis on high-priority activities such as fund raising, Museum promotion, the membership drive, and Museum security.

Mr Ken MacKeracher was appointed to the new position of assistant director, public programs, with responsibility for the departments of the public programs stream—Education Services, Extension Services, Museum Advisory Services, Membership Services, Programs and Public Relations, and Publication Services—and for staff liaison with the Members' Volunteer Committee. Mr MacKeracher joined the Museum full time in January 1984.

Also in January 1984, the development role of the Development and Membership Services Department became the province of a separate Development Office. This new department has the

responsibility of providing the staff and the administrative support for the Museum's fund-raising activities. While the Development Office is administratively one of the operations departments, Mr Robert Howard, who in January 1984 was appointed head of the Development Office and chief executive officer of the ROM Development Trust, works very closely with the Galleries Campaign Committee and the Development Trust. After the resignation of Mrs Gloria J. Faller, acting head of Development and Membership Services, Mrs Stephanie Orange was appointed head of the Membership Services Department.

The Museum's program of temporary exhibitions ceased to be part of the responsibility of the Programs and Public Relations Department and a new Exhibitions Department was established. Miss Susan Fraser was appointed head of Programs and Public Relations, Mr Charles S. Tomsik head of the Exhibitions Department.

Finally, the security section of the Physical Plant Department was set up as a separate department to facilitate the improvement of security systems and facilities, particularly in the areas where a consultant's study had recommended changes. Pending the appointment of a new chief of security, necessitated by the retirement of Mr Alan Lawrence after twenty-one years of service, Mr Irwin Blehm, who undertook the study of the Museum's security, has been filling the position on a temporary basis.

EDUCATION SERVICES

Ronald Miles, Head

Normalcy returned. All sections of Education Services' operation came into full use this year for the first time since the Museum's reopening in 1982. Total attendance for all programs organized by the department was 102 989.

SCHOOL VISITS In Education Services, 1983/84 was the "Year of the Classroom". In the newly opened classrooms of the department, teaching involving the students' handling of objects proved to be a tremendous success, with a total attendance of 22 503. Traditional gallery lessons, however, continued to comprise the majority of visits—59 313 students.

Twenty Museum volunteers continued to assist us as gallery resource persons for the kindergarten to grade three visitors each week. In addition, a new group of twenty-eight Museum volunteers was trained to provide practical assistance in the classrooms. All of this support is very gratefully acknowledged.

A very special acknowledgement must be made to the York Board of Education for allowing our seconded teacher, Mrs Robin Howe, to remain with us for an extra year.

TEACHERS' WORKSHOPS Workshops on professional development were attended by 963 persons. A new program for teachers, "Information Update", was inaugurated in September. Three dinner/lecture workshops were attended by 268 persons.

SPECIAL EXHIBITIONS *Silk Roads • China Ships* proved to be of great value to the 6913 students and teachers from elementary to postsecondary classes who attended. A specially designed teaching



A participant in the program for six-to-eight-year-olds in the Summer Experiences in Creative Arts Program.

kit was produced for the exhibition by an advisory panel from the Metro Toronto boards of education led by Mrs Howe.

FORUM FOR SENIORS A dedicated group of seniors (3283 in 1983/84) continue to attend film programs and lectures on subject themes Thursday afternoons in the Planetarium lecture room.

CONTINUING EDUCATION The evening program for adults, designed to appeal to the special interests of ROM members, to attract and involve new members, and to make the public aware of the diversity of the collections and the extent of curatorial research, drew 1710 people. Four programs were presented by curators this year: *Silk Roads • China Ships*, *European Sculpture and the Decorative Arts*, *From the Collections*, and *Eighteenth-*

Century English Canada. A new option for *Eighteenth-Century English Canada* was a dinner in the members' lounge and a ticket to the *Georgian Canada* exhibition.

CREATIVE ARTS PROGRAM A series of innovative programs was planned in addition to the traditional Saturday Morning Club, science workshops, and introductory explorations in archaeology. Experimental programs from art instruction to fashion design were offered to appeal to a broad range of interests. The total attendance for all activities during the year was 2424.

DISCOVERY GALLERY This expanded "mini-museum-in-a-gallery" opened in July 1983 with major new components, a much-improved study area, and the successful "old favourites" in place. The facility continues to be extremely popular for discoverers of all ages.

Mrs Frances MacArthur, who had served as coordinator since the inception of the discovery room in 1977, resigned at the end of June 1984. We wish her every success in her search for new challenges. Mrs Ruth Freeman became coordinator of the discovery gallery in June 1984. The contribution of sixty Museum volunteers who trained and served as supervisors in the gallery during the year is greatly appreciated.

EXTENSION SERVICES

David A. Young, Acting Head

"Dinosaur Daze", held from September through November 1983 in the town of Simcoe, was a project that, for the first time in the history of the department, utilized related components from all Extension Services programs in a single theme. A member of our Provincial Extension Advisory Committee, Mr Ian McPhail of the Norfolk Board of Education, coordinated the efforts of virtually all the cultural and educational resources in the community. Their enthusiastic and imaginative participation was central to the outstanding success of this project.

Home for the Holiday, a special fifteen-exhibit display of ROM travelling exhibits, held at the ROM from 20 December 1983 to 23 January 1984, was another first for the department. This display generated favourable comments not only from the visiting public and officials from the Ontario Ministry of Citizenship and Culture and the Ontario Museum Association, but also from ROM staff. This project also generated coverage in both the Metro news media and the Ontario Museum Association publication *Currently*.

Our inventory of travelling exhibits was increased significantly: *Albertosaurus*, a free-standing cast 3.35 m high and 5.48 m long accompanied by an audio-visual program; *Prosaurolophus*, an equally impressive free-standing cast; *Dinosaur Specimens*, a table-top case of casts of dinosaur specimens illustrating special features such as skin and dentition; *War of 1812*, a small exhibit relating to Ontario's bicentennial; and *Heirlooms: Echoes of Ontario's Past*, our major contribution to the bicentennial and one of the largest exhibits produced to date by the department. In addition, two existing exhibits were modified: *Parasaurolophus*, our oldest dinosaur cast, was mounted on a free-standing frame for ease of shipping and installation; *Prints of the Great Kabuki Actors* was reproduced as a photographic show for circulation to Ontario libraries, where it has been enthusiastically received. Last year, 24 travelling exhibits were circulated to 105 different locations across Canada and throughout Ontario for a total attendance of 228 727.

To mark the bicentennial, a second *War of 1812* exhibit was produced for the Discovery Van program. The Discovery Van circulated 6 exhibits to 20 Ontario communities for an unprecedented total attendance of 244 930.

The school services program produced two duplicate cases of

The General Store, 1860s to mark the bicentennial and two of *Inuit: People of the North*. We also completely redesigned *Marco Polo's Journey to China*. From September 1983 to June 1984, 34 school cases were circulated to 530 schools in 37 school boards in Ontario for an estimated total attendance of 78 540. Eight new resource boxes for Metro schools, *Writing in the Nineteenth Century*, were produced. There were 303 bookings from our inventory of 90 resource boxes from September 1983 to June 1984 for a total attendance of 13 328.

More than six thousand students received our *Sky Show* chart produced in cooperation with the McLaughlin Planetarium, and more than a thousand teachers' notes were distributed.

The fossil museumobile visited 76 communities, with an attendance of 24 720; the archaeology museumobile visited 68 communities and was viewed by 30 481 people. The speaker's bureau arranged 97 speaking engagements in 37 Ontario communities for a total attendance of 4645.

Total attendance for all Extension Services programs exceeded 607 000.

The department was generously assisted by grants from Outreach Ontario and Festival Ontario, programs of the Ontario Ministry of Citizenship and Culture, and from the National Museums of Canada, for which we express our appreciation.

MEMBERS' VOLUNTEER COMMITTEE

Jane Tilden, President

The twenty-seventh annual meeting in May concluded another excellent year for the Members' Volunteer Committee. The ROM Theatre seat sale was the major fund-raising project for the year. Nearly half the seats have been sold at \$1000 each and plaques with the donor's name have been installed on the arms of the chairs. The exotic goods from the bazaar at the entrance to the *Silk Roads • China Ships* exhibition were sold to the public by the MVC in January. The exhibition fund profited by \$15 000. The Strawberry Social, the opening celebration for the *Georgian Canada* exhibition, was held in June in the ROM terrace garden.



Minister of Citizenship and Culture the Honourable Susan Fish helps to serve strawberry shortcake at the opening of *Georgian Canada: Conflict and Culture*, 7 June 1984. (Photo: BDS Studios, Gary Beechey)

The MVC organized the event, at which 2000 people enjoyed delicious strawberry shortcake.

The decorating committee provided flower arrangements in the galleries and the members' lounge, the Christmas trees, and table decorations for receptions and private parties.

The docents this past year gave 631 tours to a total of 12 164 people. The Canadiana luncheon tours—offered eight times—were always popular and sold out. ROMbus, our program of bus outings in and around Toronto, had ten trips and a record profit. ROMwalks, free historical walking tours, were conducted three times a week this past summer. A new walk, entitled "Yorkville, A Tollgate Village", started at the Museum.

The travel committee ran six trips—to Soviet Central Asia, Boston, Kenya, the Nile, Savannah-Charleston, and Massenzia (Rome)—with 149 people participating.

More than three hundred ROM volunteers served the Museum in a number of areas: the membership desk, the information desk, Education Services, the discovery gallery, and curatorial departments. Many participated as hostesses and guides for new members' receptions, film series, conferences, exhibition openings, "Dinosaur Week", special exhibitions, and "Run for the ROM". Our "Run for the ROM" volunteer team raised over \$6000.

The profit from all MVC projects this year was \$180 000. This money has gone towards the \$500 000 pledge made in 1982 to the renovation and expansion fund and brings our total contribution to \$410 000.

BISHOP WHITE COMMITTEE The Bishop White Committee supports the Far Eastern Department of the ROM. This year the committee sponsored a spring and fall lecture series, an opening party for the Bishop White gallery, a committee-staff Christmas luncheon, and a luncheon at the Sai Woo restaurant, with Mr Patrick Watson as speaker. The profits from these projects, along with the interest earned and donations from "Friends of the Far East", enabled the Bishop White Committee to increase the endowment fund by \$23 000 to a total of \$184 600; to pay another \$10 000 on their pledge to the Bishop White gallery renovation; and to purchase a four-volume set of books by Bishop White for the Far Eastern library.

TEXTILE ENDOWMENT FUND COMMITTEE The Textile Endowment Fund Committee supports the Museum's Textile Department. This year's activities included four popular dressmaking workshops, a lecture series, a country Christmas party, and many hours of service in the Textile Department. The profits from these events and the interest earned increased the fund by \$14 900 to a total of \$53 525. The committee was also able to purchase for the Textile Department two garments with a total value of \$6163, in honour of Mr John Vollmer, formerly associate curator in the Textile Department and now at the Glenbow Museum in Calgary.

MEMBERSHIP SERVICES

Stephanie Orange, Head

This was another exciting year for members of the Royal Ontario Museum. As membership climbed to 10 000, our members enjoyed the expanding cultural life of the ROM. Many took advantage of their free tickets to enjoy the exhibitions *Silk Roads • China Ships* and *Georgian Canada: Conflict and Culture*. All were invited to a special preview of the innovative Mankind Discovering gallery. Our bimonthly brochure *Atria* continued to give advance notice of the many activities that are now part of daily life at the ROM.

Life and upper-category members enjoyed the reception in celebration of the opening of *Silk Roads • China Ships* and later in

the year watched Premier William Davis of Ontario open the bicentennial exhibition, *Georgian Canada*. Our endowment members took part at the opening of *The Perfect Setting* by Mrs Lily Schreyer.

New members were oriented to Museum life at receptions in January and June. Hundreds met the chairman and director and visited new galleries. At the June reception members were able to tour *Georgian Canada* or enjoy a private Planetarium star show. Staff and volunteers presented the many educational activities, travel opportunities, and varied programs available to ROM members.

In May the membership at large exercised its vote and elected Dr A. Douglas Tushingham, formerly chief archaeologist of the ROM, to represent the membership on the board of trustees.

We are delighted with the membership desk in the rotunda, which is manned by ROM volunteers seven days a week. The department expresses its appreciation for their efforts, which contribute so much to our growing membership. The members' lounge, located on the fourth floor of The Queen Elizabeth II Terrace Galleries, continues to be a focal point for many members' luncheons or evening get-togethers.

On the administrative side, the department said farewell to Mrs Gertrude Tracy, who retired after nine years of service with us. Our computer system was upgraded to provide improved services for our expanding membership.

And finally, we would like to acknowledge the invaluable assistance of the Members' Volunteer Committee and ROM volunteers. Hundreds of hours of time have been donated to us by these volunteers in a variety of ways. They have phoned lapsed members; manned our membership desks; provided our receptions with docents and hostesses who make our new members feel special; and added the delightful touch of the decorating committee's flowers in the members' lounge. Membership Services expresses its thanks to them for their help during this exciting year.

MUSEUM ADVISORY SERVICES

David A. Young, Head

In its second year of operation, the department addressed a problem that had long plagued smaller museums throughout Ontario. In order to preserve the collections in their care, museums need a variety of conservation and archival supplies. However, because of their relatively small budgets and the relatively high minimum-purchase requirements set by most suppliers, many smaller museums had difficulty purchasing these important supplies.

Our first step towards the solution of this problem was to conduct a survey of the precise needs of Ontario's museums and related institutions. Working in close cooperation with the museum section of the Ontario Ministry of Citizenship and Culture, the Ontario Museum Association, and the Ontario Association of Archivists, we produced a questionnaire and circulated it to more than three hundred Ontario institutions. On the basis of the results of this survey, a consortium of buyers of conservation supplies was developed as a one-year pilot project. The dates for two bulk purchases were set: 15 July and 15 October 1984. The arrangement between the consortium and the supplier guaranteed the following benefits to all participants, including the ROM: no minimum-purchase order for any individual institution, and bulk-purchase discount for each product shared equally by all participants, regardless of the size of their individual orders. The participation in the 15 July purchase exceeded all expectations and the project appears thus far to be an unqualified success.

In its responsibility for coordinating ROM French-language

services, the department continued to provide consultation to all ROM departments requesting assistance. A total of 25 000 words were translated for ROM brochures, promotional material, signage, general correspondence, and special projects.

PROGRAMS AND PUBLIC RELATIONS

Susan Fraser, Head

Focused, directed, and reaching—that is the status of the Programs and Public Relations Department. It is galvanized to meet the increasingly critical challenge of the Museum's objectives.

Achievements of the last months of 1983/84 reflect the contributions made by members of the department over the past several years. And the results are dramatic:

- Restructuring of the relationship with the advertising agency to achieve internal responsibility for effective creative management of advertising dollars.
- Creation of a marketing unit to introduce the Museum to new audiences and markets.
- Establishing a new position of function coordinator to tap important growing revenue sources.
- Initiating a new relationship with the Art Gallery of Ontario for marketing coordination and mutual support—a relationship designed to lead to the creation of an arts consortium to encourage cooperative and effective spending of marketing energies.
- Introducing the Museum as an important educational attraction to the travel-trade field and developing an aggressive campaign to attract new tourist markets.
- Reorganizing distribution systems to ensure maximum visibility for marketing materials throughout Ontario and the United States border states.
- Forging a bold new relationship with Five Star Tickets to allow off-site purchase of ROM admission tickets.
- Increasing Museum representation on the Attractions Council to open opportunities for cooperative activities.
- Reorganizing the members' newsletter, *Atria*, with the assistance of the Museum community, to achieve a more effective and efficient communications link with Museum supporters.
- Recognizing the rich resources of experience and talent in the Members' Volunteer Committee and initiating new opportunities for interaction and cooperation.



Jeannette Zingg and Marshall Pynkoski perform a Georgian dance in period dress patterned after costumes in the ROM collections.

- Revitalizing the program coordination committee to assist in the cooperative planning of future Museum projects.
- Restructuring the graphics unit to encourage national promotion and public sale of the ROM's photographic materials.
- Tapping into the resources and experience of the Ontario Ministry of Citizenship and Culture to help the Museum reach ethno-cultural communities.
- Initiating directed long-range planning for program activities in support of curatorial and Museum objectives.
- Structuring programs to complement exhibition themes and encouraging public interest in and knowledge of specific cultures, collections, and historical periods.
- Developing the ROM Repertory Cinema as a major film presentation to renew interest in the Museum's collections and exhibitions.
- Cooperating with other departments in new efforts to support and reinforce each other's programs.
- Enjoying increasing media coverage of the Museum's activities.
- Collaborating with the Development Office in fund-raising and promotion activities.

PUBLICATION SERVICES

John Campsie, Head

PRODUCTION The department's major productions in 1983/84 were the two exhibition catalogues *Silk Roads • China Ships* and *Georgian Canada: Conflict and Culture 1745–1820*. Also published during the year were: *Greek, Roman, and Related Metalwares in the Royal Ontario Museum* by John W. Hayes (subsidized by a grant from the Canadian Federation for the Humanities); *A Lexicon for Maya Architecture* (Archaeology Monograph 8) by H. Stanley Loten and David M. Pendergast; the *Georgian Canada* mini-catalogue; *Fossils of Ontario, Part 2* by Frances J. E. Wagner; *Life Sciences Contributions* 135 (H. M. Verma and G. E. G. Westermann), 137 (J. D. Eckert), 139 (L. S. Russell), and 140 (C. S. Churcher); *Guide to Authors and Editors* (life sciences) by Joan M. Burke; and three packages of pattern diagrams of 18th- and 19th-century women's dresses from the Textile Department's collections, by Susan Barnwell and Mary Holford. Further details of the publications can be found in the bibliography on page 37. Four back-list titles were reprinted during the year, and 362 miscellaneous print materials were produced.

The four booklets of the *Native Peoples of Canada* series, copublished with D. C. Heath Canada Ltd, were published in the fall of 1983 and were included in the Ministry of Education's Circular 14. French translation rights to the series have been sold.

Four issues of *Rotunda* were published. The magazine's advertising revenue has increased sharply during the year and the number of paid subscriptions by non-members continues to climb.

SALES AND PROMOTION After a slow start, sales picked up and total revenue from book sales for the year was approximately the same as for last year. A total of 3501 orders was filled. (Orders filled and revenues received for exhibition catalogues on behalf of Exhibitions Department are not included in these figures.) German translation rights to Basil Johnston's *Tales the Elders Told* were sold to the Austrian publishing house Verlag St Gabriel.

As usual, book displays were mounted at a number of meetings and conventions. The principal of these were the annual trade exhibits of the Canadian Booksellers' Association in Toronto in July 1983 and of the American Booksellers' Association in Washington, D.C., from 25 to 29 May 1984. This was the first time we had exhibited at the ABA convention; there was an encouragingly high level of interest in ROM publications.

CONFERENCES AND SEMINARS Mr Hugh Porter, production coordinator, represented ROM Publication Services at the annual conference of the Canadian Book Publishers' Council at Niagara-on-the-Lake in January 1984. Miss Mary Terziano, editorial coordinator, and Mr John Campsie, head, attended the sixth annual conference of the Society for Scholarly Publishing in Washington, D.C., from 29 May to 1 June. Several department members attended professional workshops and seminars conducted by the CBPC, CPPA, and other publishers' associations.

AWARD The catalogue for *Silk Roads • China Ships*, edited by Miss Terziano and designed by Miss Jean Lightfoot, graphic artist, won an award of distinction in the American Association of Museums' 1984 museum publications competition. This award was given to only 129 of the 2000 entries.

Five members of the department ran in the annual 24-hour "Run for the ROM" relay on 15–16 June.

ACCOUNTING DEPARTMENT

William Takaki, Head

In addition to fulfilling its responsibilities for the day-to-day financial activities of the ROM, in 1983/84 the Accounting Department completed an intensive study of the various proposals for the new administrative computer project. Implementation of the selected system, a DEC VAX 11/750, has commenced. The Museum gratefully acknowledges the financial support given to this project by Wintario and the Ontario Ministry of Citizenship and Culture.

EXHIBIT DESIGN SERVICES

Lorne E. Render, Head

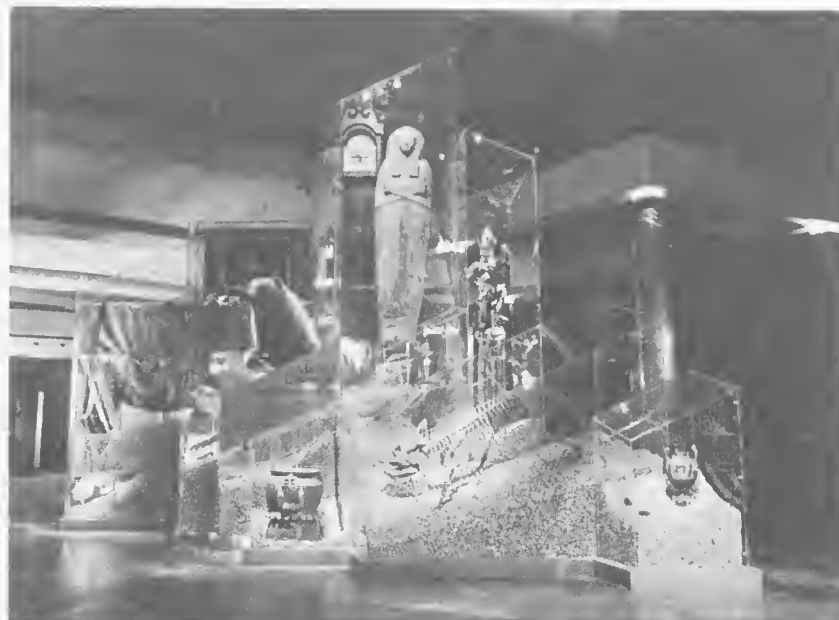
The year 1983/84 was a busy one for Exhibit Design Services. The department was involved in the planning, design, construction, installation, and maintenance of all the ROM's permanent galleries, as well as of all special and temporary exhibitions and of travelling exhibits circulated by the ROM. It also provided photography, both for the collections and in the field, original artwork, models, and other graphics.

To facilitate the work of the department head in the development of permanent galleries, a new position, assistant department head, was established. Miss Marilyn Walker, who assumed the position in April 1984, will coordinate the work of all gallery teams and participate in the development of policies and procedures related to the galleries.

Two groups, exhibit designers and exhibit programmers, were combined in a new section, exhibit planning. The amalgamation will permit better communication within the department. This year also saw the establishment of two new sections, drafting and graphics, so that exhibit development teams will now have the benefit of the services of in-house design technologists and graphics technicians.

GALLERIES The restructuring of Exhibit Design Services reflects the ROM's commitment to permanent galleries. During the year several galleries were completed and opened to the public.

The discovery gallery was moved from its original space into a larger area on level 2B. Several new "hands-on" components, based on such themes as "colour", "bones", and "ceramics",



The central cluster of the innovative Mankind Discovering gallery.

were developed for the gallery. Exhibit Design Services worked with staff of other departments in the planning, design, and production of the new area.

The Bishop White gallery of Buddhist and Daoist temple art opened in November 1983. It complements the already established Ming tomb display. *From the Collections*, a temporary exhibit of old Museum favourites, opened on the second floor of the new terrace galleries in December 1983. The following month the European rotunda, which reflects the transition from medieval to Renaissance art, was put in place. The area accommodates the display of some objects from the collections of the European Department while permanent galleries are in development.

Mankind Discovering, a gallery that is unique among international museum displays, opened in May 1984. An interdisciplinary gallery that introduces the Museum and its role in society, it is the first display to be seen by visitors as they enter the main building.

Planning is under way for the European and ethnology galleries, and the New World archaeology gallery is in production. Planning is also under way for the Canadiana exhibit in the terrace galleries; the new gallery will add to the space allocated for Canadiana collections in the Sigmund Samuel Canadiana Building and for the first time give visitors to the main building an opportunity to view objects from the Canadiana collections. At the end of 1983/84, the first segment of the Europe/Canada area—European musical instruments—was in the final stages of production.

Birds and animals continue to be collected for the galleries, particularly the mammalogy gallery. Artists and taxidermists have been at work preparing 4000 bat models for the bat cave. Toronto's first open diorama of a natural science setting will form part of the second phase of the mammalogy gallery. The ornithology gallery, for which field work has begun, will exhibit Canada's best collection of birds of the world. Mounts are now being prepared for the displays.

EXHIBITIONS Two major exhibitions, *Silk Roads • China Ships* and *Georgian Canada: Conflict and Culture* taxed the staff and resources of Exhibit Design Services in 1983/84. Mr Tim Moore, scheduler, coordinated the installation of *Silk Roads • China Ships* in New York and Cincinnati, the first two stops on its international tour after it left the Museum. In addition, the department assisted with the many details involved in the production of eight Extension Services circulating exhibits and in the programming, designing, and installation of numerous temporary exhibitions in the main building and in the Sigmund Samuel Canadiana Building.

RESEARCH AND DEVELOPMENT The department continued its practice of teaching and lecturing. It contributed to the museum studies program at the University of Toronto through the cross-appointment of Ms Leslie Patten, exhibit programmer.

Several members of the staff presented papers at the conferences of the Ontario Museum Association and the Canadian Museums Association. During the year Mr Robert Barnett, coordinator of exhibit planning, completed a course in management development for arts administrators at the Banff Centre School of Management.

Staff members, led by Mr Peter Buerschaper, supervisor, participated in the expedition to Jamaica to gather specimens and to study the habitats of Jamaican bats, for use in the bat cave of the mammalogy gallery. They were also involved in other field work related to the ornithology and archaeology galleries.

EXHIBITIONS DEPARTMENT

Charles S. Tomsik, Head

In 1983/84, the first year that the ROM has had an Exhibitions Department devoted exclusively to the attraction and organization of temporary exhibitions, two major shows were mounted in Exhibition Hall and several smaller ones were placed on view.

Silk Roads • China Ships, the ROM's first international travelling exhibition, opened in Toronto on 10 September 1983 and began its North American tour at the American Museum of Natural History, New York, on 15 February 1984. The tour will take the exhibition to Cincinnati, Miami, Vancouver, and Baltimore. *Silk Roads • China Ships* was made possible by generous grants from the American Express Foundation.

On 7 June 1984 the elegantly beautiful *Georgian Canada: Conflict and Culture 1745–1820* opened to critical acclaim. This exhibition, in celebration of the Province of Ontario's bicentennial, was organized with the generous assistance of the Ontario Ministry of Citizenship and Culture.

Three exhibitions were displayed at the Sigmund Samuel Canadiana Building: *L'art de l'architecte: Three Centuries of Architectural Drawing in Quebec City* (15 October–30 November 1983), an exhibition circulated by the Musée du Québec and the Université Laval; *Mapping Toronto's First Century 1787–1884* (15 December 1983–1 April 1984), organized by the ROM and sponsored jointly by the Toronto Historical Board and the McLean Foundation, in celebration of Toronto's sesquicentennial; and *Ontario Remembered: Nineteenth-Century Prints and Watercolours* (19 April–23 September 1984), organized by the Canadiana Department.

Several other exhibitions appeared in the main building: *The Birds of Jean-Luc Grondin* (6 February–2 April 1984), an exhibition circulated by the Université Laval, under the sponsorship of the Government of Quebec and the Canam Steelworks; *Wilderness to Studio: The Work of Paul Kane* (7 June–8 September 1984), organized by the ROM from the ethnology collections; *The Perfect Setting: Dinnerware for Government House* (12 April–8 July 1984), an exhibition circulated by the Ontario Potters Association; and *SuZan Noguchi-Swain Insect Illustrations* (16 April–29 May 1984), an exhibition circulated by the University of Colorado Museum.

PERSONNEL DEPARTMENT

Larry R. Allen, Head

The Personnel Department is responsible for all aspects of employee relations within the Museum. These include administration of personnel policies, recruitment, salary administration, labour relations, training, employee benefit administration, and personnel records.

During 1983/84, 198 positions were filled and more than 5000 employment applications were processed. Employee benefit plans were reviewed and the first employee benefit brochure was published. Management and supervisory training programs were developed and implemented.

Collective agreements with the Ontario Public Service Employees' Union and Service Employees' International Union were successfully renegotiated in accordance with the Ontario provincial government's restraint legislation. The Personnel Department provided information to the Ontario Labour Relations Board regarding certification of the ROM Curatorial Association and was in attendance at many hearings for this purpose.

PHYSICAL PLANT DEPARTMENT

E. Ralph Baker, Head

The Physical Plant Department continues to be responsible for the operation of the mechanical and electrical systems of the building and for the maintenance of the building fabric itself. Other Physical Plant services required to permit the smooth conduct of Museum activities include mail processing, photocopying, telephones, vehicle maintenance, and housekeeping, which is an ever larger task as new galleries are opened.

During the year 1983/84, the department began to supply chilled water for the air-conditioning system of the newly opened George R. Gardiner Museum of Ceramic Art. This was in addition to the chilled water that has been supplied to the University of Toronto's Edward Johnson Building for several years.

ROM SHOPS

Sophia Stepovy, Head

The ROM Shop, 2323 m² of warm wood, sparkling glass, and chrome, offers a wide variety of publications, jewellery, gifts, posters, and stationery drawn from all over the world. Products range from an elegant pair of hand-carved and painted wooden herons more than a metre tall, to "bar-B-Q" aprons depicting a ferocious allosaurus who commands "EAT MEAT!", to a line of ROM reproductions, exclusive designs, and adaptations from the collections.

Wholesale, mail order, and corporate account operations are enjoying steady growth. During 1983/84 the shop hosted several programs, public and invitational. A series of autographings featuring noted authors, illustrators, and photographers, such as the late Roloff Beny and Robert Bateman, brought many new customers to the shop. An Interior Designers' Evening held in May introduced some of Toronto's most influential dictators of taste to the shop's panoply of decorative accessories.

The Little Shop, just off the lower rotunda, is a treasure house of fun, ideas, and activities for children. Its colourful interior is packed with books, games, creepy-crawly creatures, dinosaurs, fossils, and toys of every description to delight tots to teens.

In the effort to provide products that reflect the cultural and educational aims of the Museum, the staff of both shops frequently ask members of the various ROM departments to evaluate possible merchandise and to supply the information that accompanies many of the items.

The response from visitors has been enthusiastic and both shops will continue to expand customer interest and traffic by hosting exciting and attractive public programs and promotions based on products available for purchase in the shops.

Auditors' Report

To the Trustees of
The Royal Ontario Museum:

We have examined the balance sheet of The Royal Ontario Museum as at June 30, 1984 and the statements of financial operations of the Operating Fund, Trust Funds, Renovation and Expansion Project Fund and ROM Galleries Campaign for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as we considered necessary in the circumstances, except as noted in the following paragraph.

As is common with organizations of this type, The Royal Ontario Museum receives bequests and donations the completeness of which is not susceptible to conclusive audit verification. Accordingly, we were unable to determine whether any adjustments might be necessary to bequests and donations received in the year and fund balances.

In our opinion, except for the effect of any adjustments which might have been required had we been able to satisfy ourselves with respect to completeness of bequests and donations, these financial statements present fairly the financial position of the Museum as at June 30, 1984 and the results of its operations for the year then ended in accordance with the accounting principles described in note 1 applied on a basis consistent with that of the preceding year.



Chartered Accountants
Toronto, Canada,
August 30, 1984.

The Royal Ontario Museum

(Incorporated by Special Act of the Ontario Legislature as a corporation without share capital)

BALANCE SHEET

JUNE 30, 1984 (with comparative figures as at June 30, 1983)

ASSETS		
	1984	1983
Operating Fund		
Cash	\$ 392,087	\$ 798,157
Short-term investments and accrued interest (at cost, which approximates market value)	115,894	144,341
Marketable securities, at cost (quoted market value: 1984—\$248,564; 1983—\$744,889)	242,671	595,080
Accounts receivable	673,004	324,746
Amounts due from Renovation and Expansion Project Fund (note 8)	415,068	1,132,426
Inventories	443,661	475,308
Prepaid expenses	105,064	105,217
Deferred costs on special exhibitions	711,034	741,570
Fixed assets, at nominal value:		
Land and buildings	1	1
Collections and contents	1	1
	<u>\$3,098,485</u>	<u>\$4,316,847</u>
Trust Funds		
Cash	\$ 177,054	\$ 512,699
Short-term investments and accrued interest (at cost, which approximates market value)	84,093	124,523
Marketable securities, at cost (quoted market value: 1984—\$2,202,075; 1983—\$1,831,587)	2,121,534	1,634,578
	<u>\$2,382,681</u>	<u>\$2,271,800</u>
Total operating fund and trust funds	<u>\$5,481,166</u>	<u>\$6,588,647</u>
Renovation and Expansion Project Fund		
	\$ <u>Nil</u>	\$ <u>Nil</u>
ROM Galleries Campaign		
Cash	\$ 71,547	
Amounts due from Renovation and Expansion Project Fund	1,911,948	
	<u>\$1,983,495</u>	\$ <u>Nil</u>

On behalf of the Board:

Edwin A. Goodman

Edwin A. Goodman, Trustee

(See accompanying notes)

J. J. Garwood

J. J. Garwood, Trustee

LIABILITIES AND FUND EQUITIES

	1984	1983
Operating Fund		
Accounts payable and accrued liabilities	\$1,454,336	\$1,474,803
Deferred operating grants	801,156	1,118,215
Advance and grant for special exhibition (note 7)	1,250,000	450,000
	<u>3,505,492</u>	<u>3,043,018</u>
 Fund balance (deficit):		
General	(34,142)	94,214
Special exhibitions	(2,028,108)	(798,486)
Restricted (note 3)	1,655,243	1,978,101
	<u>(407,007)</u>	<u>1,273,829</u>
	<u>\$3,098,485</u>	<u>\$4,316,847</u>
 Trust Funds		
Accounts payable and accrued liabilities	\$ 903	\$ 886
Fund balance (note 3)	<u>2,381,778</u>	<u>2,270,914</u>
	<u>\$2,382,681</u>	<u>\$2,271,800</u>
 Total operating fund and trust funds	<u>\$5,481,166</u>	<u>\$6,588,647</u>
 Renovation and Expansion Project Fund		
Bank indebtedness	\$2,728,423	\$4,819,767
Accounts payable and accrued liabilities	117,600	137,335
Construction holdbacks payable		35,673
Amounts due to Operating Fund (note 8)	415,068	1,132,426
Amounts due to ROM Galleries Campaign	1,911,948	
Fund balance (deficit)	(5,173,039)	(6,125,201)
	<u>\$ Nil</u>	<u>\$ Nil</u>
 ROM Galleries Campaign		
Accounts payable	\$ 17,344	
Campaign balance	<u>1,966,151</u>	
	<u>\$1,983,495</u>	<u>\$ Nil</u>

(See accompanying notes)

STATEMENT OF FINANCIAL OPERATIONS

Operating Fund

YEAR ENDED JUNE 30, 1984

(with comparative figures for the year ended June 30, 1983)

	General		Restricted	1984 Total	1983 Total
	Operations	Special Exhibitions			
Revenues:					
General —					
Province of Ontario grants	\$12,960,200			\$12,960,200	\$12,410,799
National Museums of Canada grant	176,000			176,000	176,000
Admission fees — General	513,663	\$ 432,505		946,168	1,396,380
— Planetarium — General	267,577			267,577	275,999
— Light shows	135,943			135,943	88,437
Catalogue sales		112,883		112,883	76,428
Investment income	136,443			136,443	193,736
Sponsors' payments		179,025		179,025	
Exhibition rental income		75,000		75,000	
Education and Communication programs (net)	192,421			192,421	127,565
Cafeteria income	82,594			82,594	55,001
Other	58,781	25,747		84,528	53,532
Restricted —					
Donations (note 1(e))			\$1,075,386	1,075,386	402,121
Grants			520,326	520,326	245,751
Investment income			228,258	228,258	445,796
Membership fees			314,216	314,216	217,738
Membership lounge (net)			3,387	3,387	(132)
Professional services			229,159	229,159	246,974
Other			11,017	11,017	36,885
Total revenues	<u>14,523,622</u>	<u>825,160</u>	<u>2,381,749</u>	<u>17,730,531</u>	<u>16,449,010</u>
Expenditures:					
Salaries, wages and benefits (note 6)	10,621,849	204,067	259,183	11,085,099	10,734,548
Artifacts and specimens (note 1(e))			1,697,146	1,697,146	488,155
Building maintenance and utilities	1,498,838			1,498,838	1,128,010
Rent and storage	41,438		3,302	44,740	70,271
Equipment	123,110	7,342	126,166	256,618	464,211
Gift shop operations (net)	27,951	49,801		77,752	31,995
Catalogue expenses		269,455		269,455	201,312
Supplies	431,799	6,798	54,997	493,594	533,037
Excavations and field work	113,471		106,100	219,571	293,036
Gallery maintenance	15,848			15,848	26,387
Purchased services	1,021,587	188,982	140,323	1,350,892	1,188,916
Travel	157,556	43,623	28,650	229,829	297,854
Exhibit design and fabrication	79,935	985,791		1,065,726	646,155
Books and periodicals	154,548			154,548	132,486
Publications (net)			93,311	93,311	39,594
Advertising and publicity	312,662	284,491	54,329	651,482	858,679
Royalties		8,475		8,475	59,757
Other	186,386	5,957	6,100	198,443	153,055
Total expenditures	<u>14,786,978</u>	<u>2,054,782</u>	<u>2,569,607</u>	<u>19,411,367</u>	<u>17,347,458</u>
Deficiency of revenues over expenditures	(263,356)	(1,229,622)	(187,858)	(1,680,836)	(898,448)
Transfers between funds (note 2)	135,000		(135,000)		(1,249,734)
Fund balance (deficit), beginning of year	94,214	(798,486)	1,978,101	1,273,829	3,422,011
Fund balance (deficit), end of year	<u>\$ (34,142)</u>	<u>\$(2,028,108)</u>	<u>\$1,655,243</u>	<u>\$ (407,007)</u>	<u>\$1,273,829</u>

(See accompanying notes)

STATEMENT OF FINANCIAL OPERATIONS

Trust Funds

YEAR ENDED JUNE 30, 1984

(with comparative figures for the year ended June 30, 1983)

	1984	1983
Revenues:		
Bequests and donations	\$ 14,519	\$ 9,264
Investment income	216,366	237,117
Other	20,782	2,522
Total revenues	<u>251,667</u>	<u>248,903</u>
Expenditures on behalf of the Museum	140,803	134,474
Excess of revenues over expenditures	110,864	114,429
Fund balance, beginning of year	2,270,914	2,156,485
Fund balance, end of year	<u><u>\$2,381,778</u></u>	<u><u>\$2,270,914</u></u>

The trust funds consist of the following:

- The Archaeological Endowment Fund
- Colin Gordon Fund
- Elizabeth B.G. MacDonald Fund
- The Far Eastern Endowment Fund
- R.S. McLaughlin Planetarium Endowment Fund
- Textile Endowment Fund
- The Veronica Gervers Memorial Research Fund

(See accompanying notes)

STATEMENT OF FINANCIAL OPERATIONS

ROM Galleries Campaign

YEAR ENDED JUNE 30, 1984

Revenues:	
Bequests and donations	\$ 283,679
Province of Ontario grant	4,000,000
Run for the ROM	129,669
Interest	46,276
	<u>4,459,624</u>
Expenditures:	
Gallery development	2,348,401
Start-up and other costs	145,072
	<u>2,493,473</u>
Campaign balance	<u><u>\$1,966,151</u></u>

(See accompanying notes)

STATEMENT OF FINANCIAL OPERATIONS

Renovation and Expansion Project Fund

(Including gallery development expenditures to June 30, 1983 — see note 4)

YEAR ENDED JUNE 30, 1984

	Cumulative balance June 30, 1983	Receipts and expenditures during the year	Cumulative balance June 30, 1984
Revenues:			
Bequests and donations	\$ 9,320,174	\$ 353,879	\$ 9,674,053
Province of Ontario grants, including the financing provided by The Ontario Universities Capital Aid Corporation (note 4)	15,750,000		15,750,000
Province of Ontario grant in lieu of Federal assistance	11,000,000		11,000,000
Wintario	10,338,000		10,338,000
Special Wintario grant for handicapped facilities	418,445		418,445
Chinese Exhibition grant	150,000		150,000
Municipality of Metropolitan Toronto	2,762,500	812,500	3,575,000
National Museums of Canada grant	174,000	8,000	182,000
Revenues from special events (net)	106,878		106,878
Members' Volunteer Committee	416,454	178,072	594,526
Run for the ROM	83,837		83,837
Interest	1,449,962		1,449,962
	51,970,250	1,352,451	53,322,701
Campaign costs	(622,507)	(73,359)	(695,866)
	51,347,743	1,279,092	52,626,835
Expenditures (note 5):			
Building (including interest costs of \$154,494 in 1984)	54,357,980	(36,394)	54,321,586
Gallery development (representing interest costs of \$363,324 in 1984 on expenditures prior to July 1, 1983)	4,541,977	363,324	4,905,301
	58,899,957	326,930	59,226,887
	(7,552,214)	952,162	(6,600,052)
Transfers from Operating Fund	1,427,013		1,427,013
Fund balance (deficit)	<u>\$(6,125,201)</u>	<u>\$ 952,162</u>	<u>\$(5,173,039)</u>

(See accompanying notes)

Notes to Financial Statements

JUNE 30, 1984

1. Summary of accounting policies

The financial statements of The Royal Ontario Museum have been prepared by management in accordance with accounting policies generally followed by similar organizations. The following summary of these accounting policies is set forth to facilitate the understanding of these financial statements.

(a) Fund accounting—

In order to ensure observance of limitations and restrictions placed on the use of resources available to the Museum, the accounts of the Museum are maintained in accordance with the principles of fund accounting. Accordingly, resources for various purposes are classified for accounting and reporting purposes into funds that are held in accordance with the objectives specified by the donors or in accordance with directives issued by the Board of Trustees. Transfers between funds are made when it is considered appropriate by the Board of Trustees. For financial reporting purposes, the accounts have been classified into four groupings as follows:

- (i) Operating Fund—The Operating Fund includes the ordinary day-to-day operating transactions of the Museum, special exhibitions and certain amounts received by the Museum or designated by the Board of Trustees to be restricted to certain expenditures of a current operating nature. Special exhibitions are those involving special expenditures for which a specific admission fee is charged. Costs of such exhibitions are deferred until the exhibitions are opened to the public and then are charged to operations over the period of the exhibition.

The operating restricted funds include the following:

(a) Current restricted funds—

Expendable funds received whose use is restricted by the donor for special purpose expenditures of a current nature.

(b) Board designated funds—

Expendable funds for general or special purposes which have been set aside in accordance with directives issued by the Board of Trustees from time to time. Revenues earned from certain auxiliary activities (memberships, publications, and cross-appointment teaching) are also included as directed by the Board of Trustees. In addition, expendable bequests, grants and donations and investment income from non-restricted funds from donors are included in this category.

Reference is made to note 3 for details of these accounts.

- (ii) Trust Funds—These include the total amounts received and the total amounts expended whose use is restricted in accordance with objectives as specified by the donors. These trust funds consist of capital funds received which are non-expendable, together with the unexpended income thereon.

Reference is made to note 3 for details of these accounts.

- (iii) Renovation and Expansion Project Fund—These include amounts received and expended that relate to the Museum's project of renovations to, and expansion of, its building and initial phases of gallery development (note 4).

- (iv) ROM Galleries Campaign—These include amounts received from the Campaign and expenditures incurred to complete the design and installation of exhibits in all of the Museum's gallery spaces. The accounts of the Royal Ontario Museum Development Trust are included with those of the ROM Galleries Campaign (note 5).

- (b) Basis of recording operating and trust fund receipts and expenditures—

The Museum follows the accrual basis of accounting. Operating and trust fund income is recorded when earned, and expenditures are recorded when materials are used or services rendered. Sustaining donation revenue and current restricted funds are, however, included in revenue as received.

- (c) Inventories—

Inventories, which consist mainly of publications, book and gift shop items for resale, and supplies, are stated at the lower of cost and net realizable value.

- (d) Marketable securities—

Investments are recorded in the accounts at cost. The gain or loss on the sale of securities is based on the average carrying value of the securities sold. Interest income is recorded on the accrual basis as earned.

- (e) Fixed assets—

The land and buildings, and collections and contents, are each carried in the accounts at a nominal value of \$1. Construction costs incurred during major renovation and expansion projects are written off. Accordingly, no depreciation is recorded in the accounts.

Artifacts and specimens which are acquired by gift during the year are included in the operating fund statement of financial operations as donation revenue at their estimated appraisal values (1984—\$1,055,319; 1983—\$373,332). The excess of the appraised value of the gifts received over their nominal value is expensed in the year.

- (f) Renovation and expansion project and ROM Galleries Campaign revenues and expenditures—

Capital campaign pledges and grants are recorded when received. Expenditures are recorded as incurred. Interest on borrowings to finance the project are included in the cost of the building and gallery development.

2. Fund transfer

During the 1984 fiscal year, with Board approval, accumulated investment income of \$135,000 (1983—\$100,500) was transferred from Board designated operating restricted funds to be applied against general operating expenses of the Museum for the 1984 fiscal year.

3. Operating restricted funds and trust funds

A summary of the changes in the various operating restricted and trust account fund balances for fiscal 1984 is as follows:

	Balance June 30, 1983	Add receipts	Deduct expenditures	Transfers (note 2)	Balance June 30, 1984
<i>Operating restricted funds</i>					
Current restricted	\$ 129,188	\$ 122,875	\$ 187,337	\$ 6,503	\$ 71,229
Board designated	1,848,913	2,376,864	2,500,260	(141,503)	1,584,014
	<u>\$1,978,101</u>	<u>\$2,499,739</u>	<u>\$2,687,597</u>	<u>\$(135,000)</u>	<u>\$1,655,243</u>
<i>Trust funds</i>					
Restricted endowment					
—capital	\$1,323,066	\$ 16,270		\$ 52,941	\$1,392,277
—unexpended income	947,848	235,397	\$ 140,803	(52,941)	989,501
	<u>\$2,270,914</u>	<u>\$ 251,667</u>	<u>\$ 140,803</u>	<u>Nil</u>	<u>\$2,381,778</u>

4. Renovation and expansion project and related Province of Ontario and other financing

The building portion of the renovation and expansion project is substantially complete and, as a result, the Board of Trustees has approved its completion at a cost of \$54,750,000.

The design and installation of exhibits in new gallery spaces have total planned budgeted costs of \$28,000,000, of which \$22,000,000 is to be financed by the ROM Galleries Campaign (note 5). The balance of the costs of \$6,000,000 relate to gallery development plans made prior to the decision to conduct the Campaign and are to be financed from other sources. The Museum has received pledges and commitments of approximately \$1,600,000 for future donations.

Included in the amounts received for the Renovation and Expansion Project Fund to date is \$3,600,000 from The Ontario Universities Capital Aid Corporation, which until March 31, 1979 was the source of Province of Ontario capital funds provided to the Museum. In connection with this receipt, the Museum has issued debentures to The Ontario Universities Capital Aid Corporation which are repayable over a 30 year period. Payments of debenture principal and interest are being made on behalf of the Museum by the Ministry of Citizenship and Culture of the Province of Ontario, under its related program of financial support for the Museum. Accordingly, the principal amount of outstanding debentures (June 30, 1984—\$3,369,139; June 30, 1983—\$3,412,025) has not been recorded as a liability in the accounts.

5. ROM Galleries Campaign

The Board has approved the initiation of the ROM Galleries Campaign to ensure the completion of the design and installation of exhibits in all of the Museum's gallery spaces. The campaign commenced active solicitation of donations on May 1, 1984 and has a target of \$22,000,000, the amount estimated to cover the planned installation of exhibits subsequent to July 1, 1983. An amount of \$12,000,000 will be raised from the private sector combined with a matching grant of \$10,000,000 from the Province of Ontario, of which \$4,000,000 has been received.

Pledges and commitments of approximately \$2,000,000 for future donations have been received from the private sector.

The Royal Ontario Museum Development Trust has been created for the purpose of soliciting, receiving, holding and administering donations and bequests of money or other personal property for the benefit and use of the Museum. Donations and bequests to the ROM Galleries Campaign are initially received by the Trust.

6. Pension plan

The administrator of the University of Toronto pension plan notified the Museum during 1980 that there was estimated to be a substantial unfunded past service pension liability in the plan, which at that time covered the Museum's employees. The Museum accrued an amount of \$200,000 which was charged to operating expenditures in 1980 and which was included in operating fund liabilities at June 30, 1983.

Effective July 1, 1983, the Museum established the Museum Pension Trust to cover its employees and pensioners. The University of Toronto has agreed to transfer assets representing the fair share of assets attributable to the Museum's pension plan at July 1, 1983 to the Museum. This amount has been agreed by the actuaries of the Museum and of the University, and the creation of the separate pension plan of the Museum has been approved by the Ontario Pension Commission.

In conjunction with this transfer, an actuarial valuation has been prepared by the Museum's actuary which indicates that the plan had no unfunded liability as at July 1, 1983. Accordingly, the \$200,000 accrual has been reversed and recognized in the operating fund for the current year.

7. Advance and grant for special exhibition

In 1984, the Museum received \$800,000 which represents the second and final instalment of a \$1,250,000 advance and grant from the Province of Ontario to assist in the funding of a major exhibition for the 1984 Ontario Bicentennial, entitled "Georgian Canada: Conflict and Culture". The terms of the advance and grant have not yet been finalized.

8. Interfund loan to Renovation and Expansion Project Fund

At June 30, 1984, the Renovation and Expansion Project Fund owed \$415,068 (1983—\$1,132,426) to the Operating Fund and is charged interest at a rate equal to the average monthly prime lending rate of a Canadian chartered bank less 2 1/2%.

9. Public Sector Prices and Compensation Review Act

Under the Ontario government's Public Sector Prices and Compensation Review Act 1983 the Museum is subject to controls which limit increases in employee compensation until June 30, 1985.

10. Changes in financial statement presentation

Changes in presentation have been made in the financial statements and the comparative figures for 1983 have been reclassified to conform with the presentation adopted in 1984.

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Cruise, Dr James E., director
Hecken, Miss Dorothea, researcher, special projects

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Jen, Mr Calvin, ticket seller
Jessop, Mr Frederick, production supervisor
Kenny, Mr John, senior producer
Kistritz, Mr L., planetarium technician
Mariotti, Mrs Lucia, head guide
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Moleiro, Mr Joseph, planetarium technician
Nash, Miss Lynne, guide
Sasaki, Mr Chris, photographer
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Sanzo, Mr Gene, draftsman
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Hannas, Alyson, graphic artist
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Hawrysh, Lorna, assistant editor/production assistant
Lightfoot, Jean, graphic artist
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Porter, Mr Hugh, production coordinator
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Hambley, Mrs Jacqueline, supervisor, computer services
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Hicks, Mrs Lois, accounts payable supervisor
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Moniz, Mrs Franca, cashier
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Tsui, Mrs Kitty, accounts payable clerk

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Lumsden, Mrs Norma, personnel assistant
Simeon, Mrs Doris, benefits & pension assistant
White, Miss Janice, personnel coordinator

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Bakalas, Michael, engineer
Baker, Mr E. Ralph, head

Benedicto, Felicito, maintenance mechanic
Carter, James, maintenance mechanic
Challoner, Eve, secretary
Chow, Joseph, engineer
de Carvalho, Bert, maintenance engineer
Dowhan, Peter, service worker
D'Souza, Carlton, maintenance superintendent
Duarte, John, service worker
Fava, Antonio, service worker
Fernandez, Maria, service worker
Freitas, Maria Teresa, service worker
Galati, Antonio, senior service worker
Galati, Fortunato, service worker
Gois, Maria, service worker
Grace, Mr Derry, mail clerk/messenger
Kilpatrick, Ronald, engineer
Leamen, Arthur, maintenance electrician
Leonard, Mr Jason, mail clerk/messenger
Matos, Julieta, senior service worker
McArthur, Brian, service worker
McMullen, Mark, engineer
Melo, Jose D., service worker
Mendes, Isabel, service worker
Murphy, Victor, maintenance mechanic
Nasato, Adriana, service worker
Poland, J.M., physical plant coordinator
Rusnak, Mr Ron, administrative coordinator
Shim, Donna, service worker
Solimine, Bernardo, service worker
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Bethune, Margot, sales assistant
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Gasmann, Miss Kristin, shops assistant manager
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Jong, Mr Wing, stockroom clerk
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Mykula, Ms Robyn, sales assistant
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Blehm, Mr I., acting chief
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Burritt, Mr Frank, security officer
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